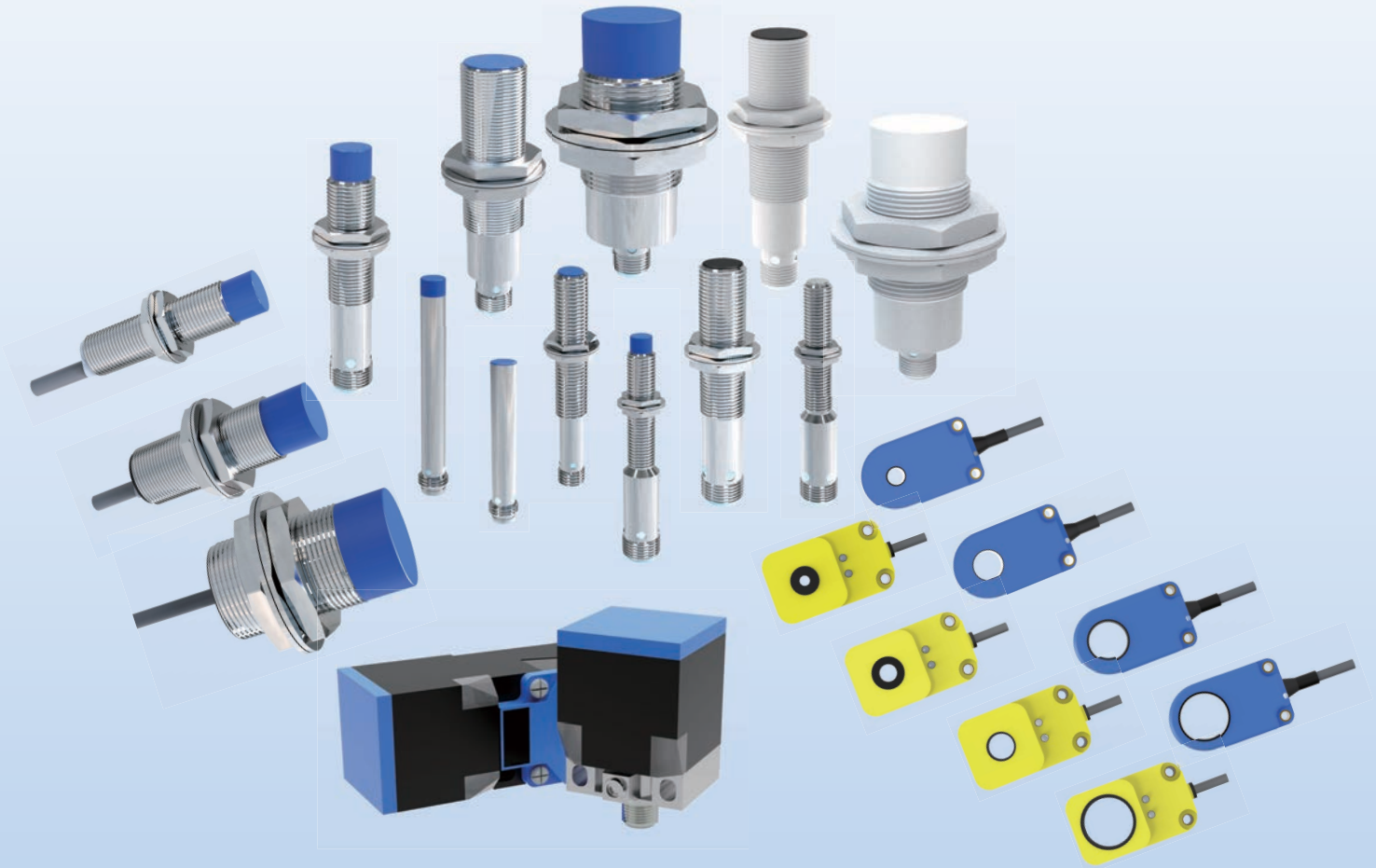


Inductive Sensors



Features:

- Non-movable contact points
- Long life
- High sensitivity
- Wide detection scope
- High reliability
- High resolution
- High linearity and repeatability

Technical data

Model number

1	2	-	3	4	5	6	-	7	8	9	10	11	-	12	13
B	B	-	M	12	04	P	-	C	1	1	P	2	-	S	■

1 Type

B Inductive
BA Analog
BF Metalface
BH High temperature
BL Wide temperature
BC Factor 1

2 Mounting

B Flush/Quasi-Flush
N Non-Flush

3 Appearance

M Threaded cylindrical
H Smooth cylindrical
Q Rectangular housing

4 Size

H3
H4
M4
M5
H6.5
M8
M12
M18
M30
.....

5 Sensing Distance (mm)

0.6 0.6mm
02 2mm
20 20mm
.....

6 Output

P PNP 3/4Wire
N NPN 3/4Wire
C DC2Wire
A AC2Wire
U AC/DC2Wire
NA Namur

7 Housing Material

C Brass,nickel-plated
V Stainless steel
P Plastic
F PTFE

8 Output Mode

1 N.O.
2 N.C.
3 N.O./N.C.
I Current output
V Voltage output
M Current/Voltage

9 Operating Voltage

0 DC6-12V
1 DC10-30V
2 DC18-30V
3 DC10-60V
4 AC20-250V
5 AC/DC20-250V

10 Connection

P PVC Cable
U PUR Cable
F PTFE Cable
A KFF46PH cable
S8 M8 Connector
S12 M12Connector
Z8 M8 Cable with connector
Z12 M12 Cable with connector
T Terminal

11 Cable Length

2 2m
3 3m
5 5m
.....

12 Other

S Shorts
F Teflon

Cylindrical

Rectangular

Namur

Metalface

Teflon

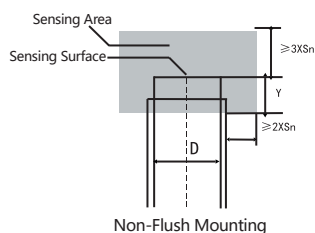
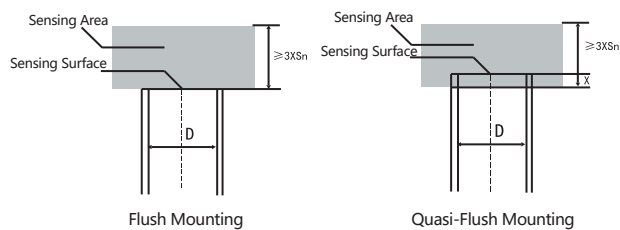
Analog

Ring probe

Wide
TemperatureHigh
Temperature

Factor 1

Mounting

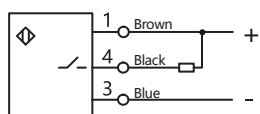


Reduction factor

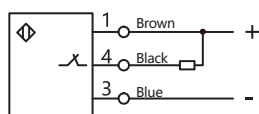
Sensing object material	Factor
Fe360 Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

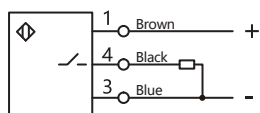
DC NPN-NO



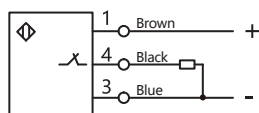
DC NPN-NC



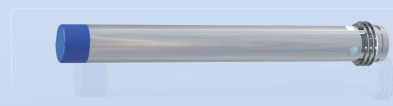
DC PNP-NO



DC PNP-NC



PICO M8 Connector



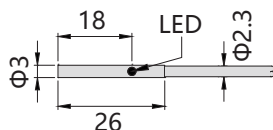
Φ3 Φ4 M4 M5 Φ6.5
Inductive proximity sensors
 Stainless steel
Cylindrical
 DC 3 wire

Technical data

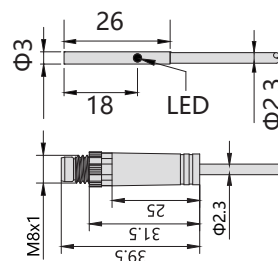
Model No	Appearance		①	②
	NPN N.O	BB-H30.6N-V11P2		BB-H30.6N-V11Z8
	NPN N.C	BB-H30.6N-V21P2		BB-H30.6N-V21Z8
	PNP N.O	BB-H30.6P-V11P2		BB-H30.6P-V11Z8
	PNP N.C	BB-H30.6P-V21P2		BB-H30.6P-V21Z8
Cylindrical	Exterior structure	Φ3mm		
Rectangular	Sensing distance	0.6mm (Flush)		
Namur	Switching frequency	2000Hz		
Metalface	Operating voltage	10...30VDC(±10%)		
Teflon	Voltage drop	≤2.0V		
Wide Temperature	Load current	100mA		
High Temperature	Leakage current	≤0.01mA		
Factor 1	No-load current	≤10mA(24V)		
	Hysteresis	<15%(Sr)		
	Repeatability	<1.0%(Sr)		
	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-25...70°C		
	Ingress protection	IP67		
	Housing material	Stainless steel		
	Sensing face material	POM		
	Connectors	2m PVC Cable, 3*0.15mm ²	M8, 0.3m Cable with connector	
	Accessories	None	B8-3GV2/B8-3WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ3X26 Cable ①



Φ3X26 Cable with connector ②



Features:

- Miniature proximity sensor
- Micro IC circuit
- Can be installed in narrow and confined spaces

Technical data

Appearance		①	②
Model No	NPN N.O	BB-M40.6N-V11P2	BB-M40.6N-V11Z8
	NPN N.C	BB-M40.6N-V21P2	BB-M40.6N-V21Z8
	PNP N.O	BB-M40.6P-V11P2	BB-M40.6P-V11Z8
	PNP N.C	BB-M40.6P-V21P2	BB-M40.6P-V21Z8
Exterior structure		M4*0.5mm	
Sensing distance		0.6mm (Flush)	
Switching frequency		2000Hz	
Operating voltage		10...30VDC(±10%)	
Voltage drop		≤2.0V	
Load current		100mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		Stainless steel	
Sensing face material		POM	
Connectors		2m PVC Cable, 3*0.15mm ²	M8, 0.3m Cable with connector
Accessories		None	B8-3GV2/B8-3WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

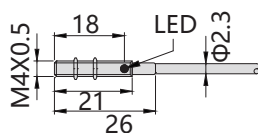
Wide Temperature

High Temperature

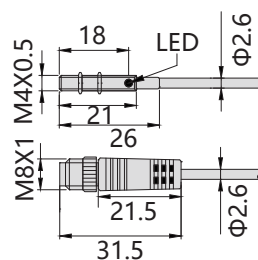
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M4X26 Cable ①



M4X26 Cable with connector ②



Features:

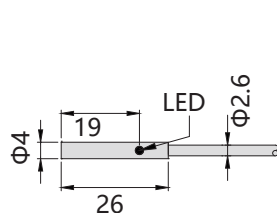
- Miniature proximity sensor
- Micro IC circuit
- Suitable for high precision equipment

Technical data

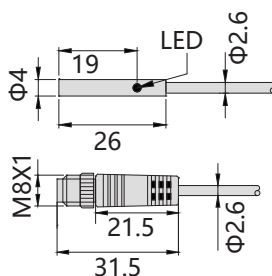
Appearance		①		②		③	
							
Model No	NPN N.O	BB-H40.8N-V11P2	BB-H41.2N-V11P2	BB-H40.8N-V11Z8	BB-H41.2N-V11Z8	BB-H40.8N-V11S8	BB-H41.2N-V11S8
	NPN N.C	BB-H40.8N-V21P2	BB-H41.2N-V21P2	BB-H40.8N-V21Z8	BB-H41.2N-V21Z8	BB-H40.8N-V21S8	BB-H41.2N-V21S8
	PNP N.O	BB-H40.8P-V11P2	BB-H41.2P-V11P2	BB-H40.8P-V11Z8	BB-H41.2P-V11Z8	BB-H40.8P-V11S8	BB-H41.2P-V11S8
	PNP N.C	BB-H40.8P-V21P2	BB-H41.2P-V21P2	BB-H40.8P-V21Z8	BB-H41.2P-V21Z8	BB-H40.8P-V21S8	BB-H41.2P-V21S8
Exterior structure		Φ4mm	Φ4mm	Φ4mm	Φ4mm	Φ4mm	Φ4mm
Sensing distance		0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)
Switching frequency		2000Hz					
Operating voltage		10...30VDC(±10%)					
Voltage drop		≤2.0V					
Load current		100mA					
Leakage current		≤0.01mA					
No-load current		≤10mA(24V)					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70℃					
Ingress protection		IP67					
Housing material		Stainless steel					
Sensing face material		POM					
Connectors		2m PVC Cable, 3*0.15mm²		M8, 0.3m Cable with connector		M8 Connector	
Accessories		None		B8-3GV2/B8-3WV2		B8-3GV2/B8-3WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

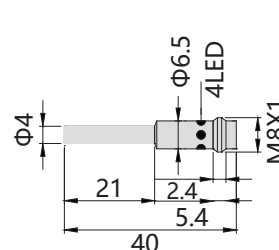
Φ4X26 Cable ①



Φ4X26 Cable with connector ②



Φ4X40 Connector ③



Features:

- Miniature proximity sensor
- Micro IC circuit
- Suitable for high precision equipment

Technical data

Appearance					
Model No	NPN N.O	BB-M50.8N-V11P2	BB-M51.2N-V11P2	BB-M50.8N-V11P2-S	BB-M51.2N-V11P2-S
	NPN N.C	BB-M50.8N-V21P2	BB-M51.2N-V21P2	BB-M50.8N-V21P2-S	BB-M51.2N-V21P2-S
	PNP N.O	BB-M50.8P-V11P2	BB-M51.2P-V11P2	BB-M50.8P-V11P2-S	BB-M51.2P-V11P2-S
	PNP N.C	BB-M50.8P-V21P2	BB-M51.2P-V21P2	BB-M50.8P-V21P2-S	BB-M51.2P-V21P2-S
Exterior structure		M5*0.5mm	M5*0.5mm	M5*0.5mm	M5*0.5mm
Sensing distance		0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)
Switching frequency		2000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.15mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

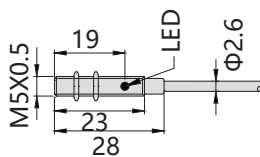
Wide Temperature

High Temperature

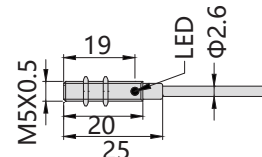
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M5X28 Cable ①



M5X25 Cable ②



Features:

- Miniature proximity sensor
- Micro IC circuit
- Can be installed in narrow and confined spaces

Technical data

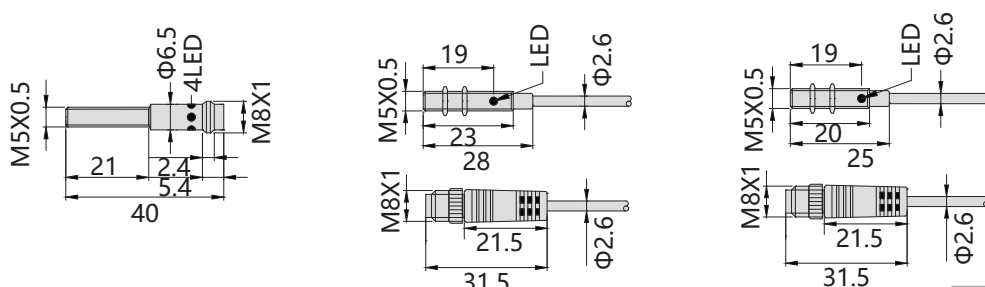
	Model No	Appearance	①		②		③	
								
			BB-M50.8N-V11S8	BB-M51.2N-V11S8	BB-M50.8N-V11Z8	BB-M51.2N-V11Z8	BB-M50.8N-V11Z8-S	BB-M51.2N-V11Z8-S
			BB-M50.8N-V21S8	BB-M51.2N-V21S8	BB-M50.8N-V21Z8	BB-M51.2N-V21Z8	BB-M50.8N-V21Z8-S	BB-M51.2N-V21Z8-S
			BB-M50.8P-V11S8	BB-M51.2P-V11S8	BB-M50.8P-V11Z8	BB-M51.2P-V11Z8	BB-M50.8P-V11Z8-S	BB-M51.2P-V11Z8-S
			BB-M50.8P-V21S8	BB-M51.2P-V21S8	BB-M50.8P-V21Z8	BB-M51.2P-V21Z8	BB-M50.8P-V21Z8-S	BB-M51.2P-V21Z8-S
Cylindrical	Exterior structure		M5*0.5mm	M5*0.5mm	M5*0.5mm	M5*0.5mm	M5*0.5mm	M5*0.5mm
	Sensing distance		0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)
Rectangular	Switching frequency		2000Hz					
Namur	Operating voltage		10...30VDC(±10%)					
	Voltage drop		≤2.0V					
Metalface	Load current		100mA					
Teflon	Leakage current		≤0.01mA					
Analog	No-load current		≤10mA(24V)					
	Hysteresis		<15%(Sr)					
Ring probe	Repeatability		<1.0%(Sr)					
Wide Temperature	Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection					
	LED indicator		With (Action: LED Indicator Lights Up)					
High Temperature	Ambient temperature		-25...70°C					
	Ingress protection		IP67					
Factor 1	Housing material		Stainless steel					
	Sensing face material		POM					
	Connectors		M8 Connector		M8, 0.3m Cable with connector		M8, 0.3m Cable with connector	
	Accessories		B8-3GV2/B8-3WV2		B8-3GV2/B8-3WV2		B8-3GV2/B8-3WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M5X40 Connector ①

M5X28 Cable with connector ②

M5X25 Cable with connector ③



Features:

- Miniature proximity sensor
- Micro IC circuit
- Can be installed in narrow and confined spaces

Technical data

Appearance		①		②	
Model No	NPN N.O	BB-H6.502N-V11P2	BB-H6.503N-V11P2	BB-H6.502N-V11P2-S	BB-H6.503N-V11P2-S
	NPN N.C	BB-H6.502N-V21P2	BB-H6.503N-V21P2	BB-H6.502N-V21P2-S	BB-H6.503N-V21P2-S
	PNP N.O	BB-H6.502P-V11P2	BB-H6.503P-V11P2	BB-H6.502P-V11P2-S	BB-H6.503P-V11P2-S
	PNP N.C	BB-H6.502P-V21P2	BB-H6.503P-V21P2	BB-H6.502P-V21P2-S	BB-H6.503P-V21P2-S
Exterior structure		Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		3000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

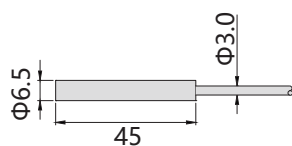
Wide Temperature

High Temperature

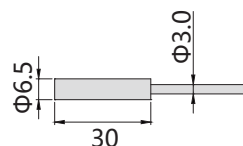
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X45 Cable ①



Φ6.5X30 Cable ②



Features:

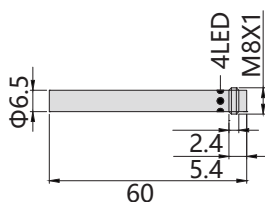
- Flush mounting;
- High response frequency;
- Multiple connection options available

Technical data

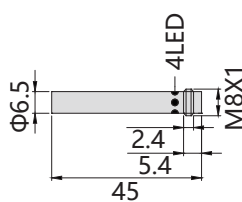
Model No	Appearance	①		②		③	
							
	NPN N.O	BB-H6.502N-V11S8	BB-H6.503N-V11S8	BB-H6.502N-V11S8-S	BB-H6.503N-V11S8-S	BB-H6.502N-V11S8-R	BB-H6.503N-V11S8-R
	NPN N.C	BB-H6.502N-V21S8	BB-H6.503N-V21S8	BB-H6.502N-V21S8-S	BB-H6.503N-V21S8-S	BB-H6.502N-V21S8-R	BB-H6.503N-V21S8-R
	PNP N.O	BB-H6.502P-V11S8	BB-H6.503P-V11S8	BB-H6.502P-V11S8-S	BB-H6.503P-V11S8-S	BB-H6.502P-V11S8-R	BB-H6.503P-V11S8-R
	PNP N.C	BB-H6.502P-V21S8	BB-H6.503P-V21S8	BB-H6.502P-V21S8-S	BB-H6.503P-V21S8-S	BB-H6.502P-V21S8-R	BB-H6.503P-V21S8-R
Cylindrical	Exterior structure	Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm
Rectangular	Sensing distance	2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
	Switching frequency	3000Hz	1000Hz	2000Hz	1000Hz	2000Hz	1000Hz
Namur	Operating voltage	10...30VDC(±10%)					
	Voltage drop	≤2.0V					
Metalface	Load current	100mA					
Teflon	Leakage current	≤0.01mA					
Analog	No-load current	≤10mA(24V)					
	Hysteresis	<15%(Sr)					
Ring probe	Repeatability	<1.0%(Sr)					
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection					
	LED indicator	With (Action: LED Indicator Lights Up)					
High Temperature	Ambient temperature	-25...70°C					
Factor 1	Ingress protection	IP67					
	Housing material	Stainless steel					
	Sensing face material	POM					
	Connectors	M8 Connector					
	Accessories	B8-3GV2/B8-3WV2					

Dimensioned drawing (Dimensional drawing ③ corresponds to technical parameters - appearance column ①)

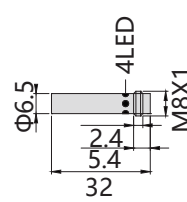
Φ6.5X60 Connector ①



Φ6.5X45 Connector ②



Φ6.5X32 Connector ③



Features:

- Flush mounting;
- High response frequency;
- Multiple connection options available

Technical data

Appearance		①		②	
					
Model No	NPN N.O	BB-H6.502N-V11P2-R	BB-H6.503N-V11P2-R	BB-H6.502N-V11P2-T	BB-H6.503N-V11P2-T
	NPN N.C	BB-H6.502N-V21P2-R	BB-H6.503N-V21P2-R	BB-H6.502N-V21P2-T	BB-H6.503N-V21P2-T
	PNP N.O	BB-H6.502P-V11P2-R	BB-H6.503P-V11P2-R	BB-H6.502P-V11P2-T	BB-H6.503P-V11P2-T
	PNP N.C	BB-H6.502P-V21P2-R	BB-H6.503P-V21P2-R	BB-H6.502P-V21P2-T	BB-H6.503P-V21P2-T
Exterior structure		Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		2000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

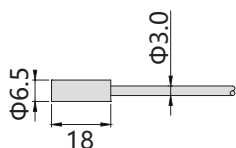
Wide Temperature

High Temperature

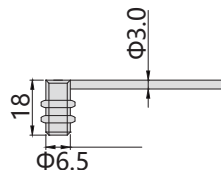
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X18 Cable ①



Φ6.5X18 Side out cable ②



Features:

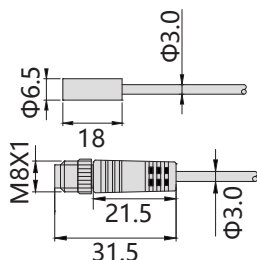
- Flush mounting;
- High response frequency;
- Ultra-short installation size

Technical data

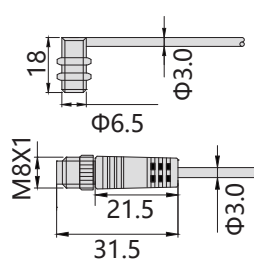
Model No	Appearance		①		②	
	NPN N.O	BB-H6.502N-V11Z8-R	BB-H6.503N-V11Z8-R	BB-H6.502N-V11Z8-T	BB-H6.503N-V11Z8-T	
	NPN N.C	BB-H6.502N-V21Z8-R	BB-H6.503N-V21Z8-R	BB-H6.502N-V21Z8-T	BB-H6.503N-V21Z8-T	
	PNP N.O	BB-H6.502P-V11Z8-R	BB-H6.503P-V11Z8-R	BB-H6.502P-V11Z8-T	BB-H6.503P-V11Z8-T	
	PNP N.C	BB-H6.502P-V21Z8-R	BB-H6.503P-V21Z8-R	BB-H6.502P-V21Z8-T	BB-H6.503P-V21Z8-T	
Cylindrical	Exterior structure	Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm	
Rectangular	Sensing distance	2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)	
	Switching frequency	2000Hz	1000Hz	2000Hz	1000Hz	
Namur	Operating voltage	10...30VDC(±10%)				
	Voltage drop	≤2.0V				
Metalface	Load current	100mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
	LED indicator	With (Action: LED Indicator Lights Up)				
High Temperature	Ambient temperature	-25...70°C				
	Ingress protection	IP67				
Factor 1	Housing material	Stainless steel				
	Sensing face material	POM				
	Connectors	M8, 0.3m Cable with connector				
	Accessories	B8-3GV2/B8-3WV2				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X18 Cable with connector ①



Φ6.5X18 Cable with connector ②



Features:

- Flush mounting;
- High response frequency;
- Super-short installation size

Technical data

Appearance		①		②	
					
Model No	NPN N.O	BN-H6.504N-V11P2	BN-H6.506N-V11P2	BN-H6.504N-V11P2-S	BN-H6.506N-V11P2-S
	NPN N.C	BN-H6.504N-V21P2	BN-H6.506N-V21P2	BN-H6.504N-V21P2-S	BN-H6.506N-V21P2-S
	PNP N.O	BN-H6.504P-V11P2	BN-H6.506P-V11P2	BN-H6.504P-V11P2-S	BN-H6.506P-V11P2-S
	PNP N.C	BN-H6.504P-V21P2	BN-H6.506P-V21P2	BN-H6.504P-V21P2-S	BN-H6.506P-V21P2-S
Exterior structure		Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm
Sensing distance		4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)
Switching frequency		1000Hz	500Hz	1000Hz	500Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

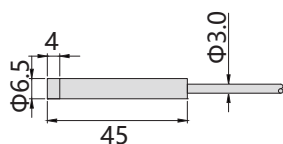
Wide Temperature

High Temperature

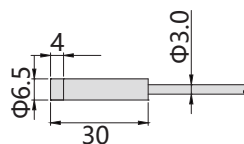
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

Φ6.5X45 Cable ①



Φ6.5X30 Cable ②



Features:

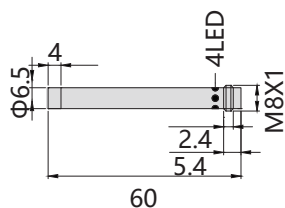
- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

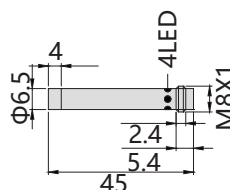
Model No	Appearance		①		②	
	NPN N.O	BN-H6.504N-V11S8	BN-H6.506N-V11S8	BN-H6.504N-V11S8-S	BN-H6.506N-V11S8-S	
	NPN N.C	BN-H6.504N-V21S8	BN-H6.506N-V21S8	BN-H6.504N-V21S8-S	BN-H6.506N-V21S8-S	
	PNP N.O	BN-H6.504P-V11S8	BN-H6.506P-V11S8	BN-H6.504P-V11S8-S	BN-H6.506P-V11S8-S	
	PNP N.C	BN-H6.504P-V21S8	BN-H6.506P-V21S8	BN-H6.504P-V21S8-S	BN-H6.506P-V21S8-S	
Cylindrical	Exterior structure	Φ6.5mm	Φ6.5mm	Φ6.5mm	Φ6.5mm	
Rectangular	Sensing distance	4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)	
	Switching frequency	1000Hz	500Hz	1000Hz	500Hz	
Namur	Operating voltage	10...30VDC(±10%)				
	Voltage drop	≤2.0V				
Metalface	Load current	100mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
	LED indicator	With (Action: LED Indicator Lights Up)				
High Temperature	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Stainless steel				
	Sensing face material	POM				
	Connectors	M8 Connector				
	Accessories	B8-3GV2/B8-3WV2				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X60 Connector ①



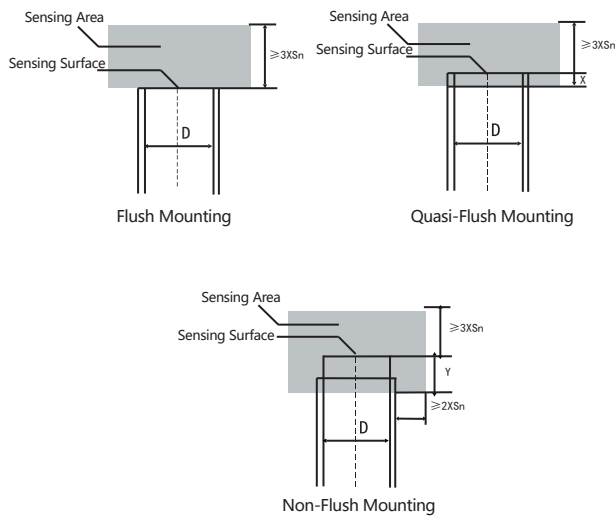
Φ6.5X45 Connector ②



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

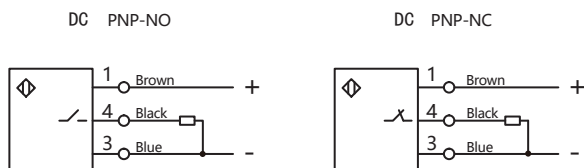
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



PICO M8 Connector



EURO M12 Connector



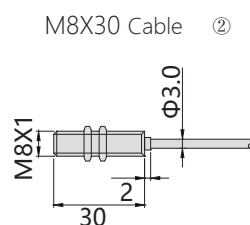
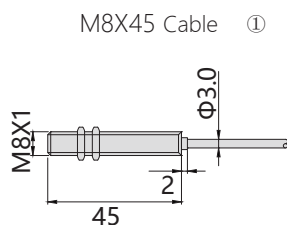
M8 M12 M18 M30
Inductive proximity sensors
 Stainless steel/Brass,nickel-plated
Cylindrical
 DC 3 wire

ISO9001 CE UKCA CQC RoHS

Technical data

Model No	Appearance		①		②	
	NPN N.O	BB-M802N-V11P2	BB-M803N-V11P2	BB-M802N-V11P2-S	BB-M803N-V11P2-S	
	NPN N.C	BB-M802N-V21P2	BB-M803N-V21P2	BB-M802N-V21P2-S	BB-M803N-V21P2-S	
	PNP N.O	BB-M802P-V11P2	BB-M803P-V11P2	BB-M802P-V11P2-S	BB-M803P-V11P2-S	
	PNP N.C	BB-M802P-V21P2	BB-M803P-V21P2	BB-M802P-V21P2-S	BB-M803P-V21P2-S	
Cylindrical	Exterior structure	M8*1mm	M8*1mm	M8*1mm	M8*1mm	
Rectangular	Sensing distance	2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)	
	Switching frequency	3000Hz	1000Hz	2000Hz	1000Hz	
Namur	Operating voltage	10...30VDC(±10%)				
	Voltage drop	≤2.0V				
Metalface	Load current	100mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection,Power-on protection				
	LED indicator	With (Action: LED Indicator Lights Up)				
High Temperature	Ambient temperature	-25...70°C				
	Ingress protection	IP67				
Factor 1	Housing material	Stainless steel				
	Sensing face material	POM				
	Connectors	2m PVC Cable, 3*0.18mm²				
	Accessories	None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- High response frequency;
- Multiple connection options available

Technical data

Appearance					
Model No	NPN N.O	BB-M802N-V11P2-R	BB-M803N-V11P2-R	BB-M802N-V11P2-T	BB-M803N-V11P2-T
	NPN N.C	BB-M802N-V21P2-R	BB-M803N-V21P2-R	BB-M802N-V21P2-T	BB-M803N-V21P2-T
	PNP N.O	BB-M802P-V11P2-R	BB-M803P-V11P2-R	BB-M802P-V11P2-T	BB-M803P-V11P2-T
	PNP N.C	BB-M802P-V21P2-R	BB-M803P-V21P2-R	BB-M802P-V21P2-T	BB-M803P-V21P2-T
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		2000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

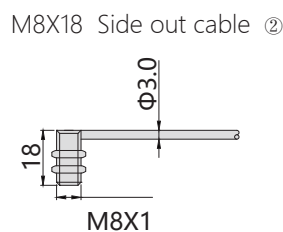
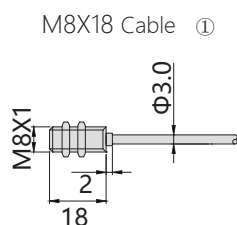
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



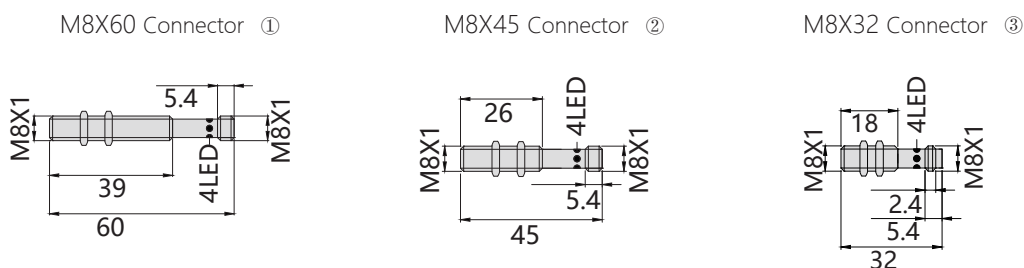
Features:

- Flush mounting;
- High response frequency;
- Super short size optional

Technical data

Appearance		①		②		③	
							
Model No	NPN N.O	BB-M802N-V11S8	BB-M803N-V11S8	BB-M802N-V11S8-S	BB-M803N-V11S8-S	BB-M802N-V11S8-R	BB-M803N-V11S8-R
	NPN N.C	BB-M802N-V21S8	BB-M803N-V21S8	BB-M802N-V21S8-S	BB-M803N-V21S8-S	BB-M802N-V21S8-R	BB-M803N-V21S8-R
	PNP N.O	BB-M802P-V11S8	BB-M803P-V11S8	BB-M802P-V11S8-S	BB-M803P-V11S8-S	BB-M802P-V11S8-R	BB-M803P-V11S8-R
	PNP N.C	BB-M802P-V21S8	BB-M803P-V21S8	BB-M802P-V21S8-S	BB-M803P-V21S8-S	BB-M802P-V21S8-R	BB-M803P-V21S8-R
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		3000Hz	1000Hz	2000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)					
Voltage drop		≤2.0V					
Load current		100mA					
Leakage current		≤0.01mA					
No-load current		≤10mA(24V)					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70℃					
Ingress protection		IP67					
Housing material		Stainless steel					
Sensing face material		POM					
Connectors		M8 Connector					
Accessories		B8-3GV2/B8-3WV2					

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- High response frequency;
- Multiple connection options available

Technical data

Appearance		①		②	
					
Model No	NPN N.O	BB-M802N-C11S12	BB-M803N-C11S12	BB-M802N-C11S12-S	BB-M803N-C11S12-S
	NPN N.C	BB-M802N-C21S12	BB-M803N-C21S12	BB-M802N-C21S12-S	BB-M803N-C21S12-S
	PNP N.O	BB-M802P-C11S12	BB-M803P-C11S12	BB-M802P-C11S12-S	BB-M803P-C11S12-S
	PNP N.C	BB-M802P-C21S12	BB-M803P-C21S12	BB-M802P-C21S12-S	BB-M803P-C21S12-S
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		3000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

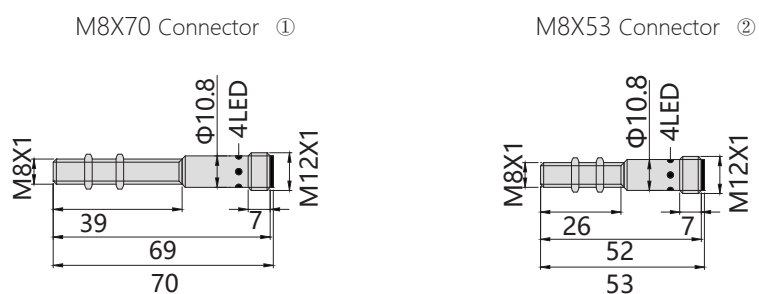
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

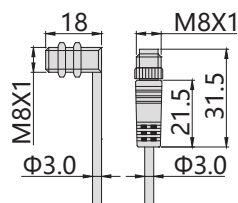
- Flush mounting;
- High response frequency;
- Multiple connection options available

Technical data

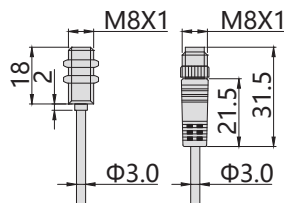
Appearance								
		Model No	NPN N.O	BB-M802N-V11Z8-T	BB-M803N-V11Z8-T	BB-M802N-V11Z8-R	BB-M803N-V11Z8-R	
			NPN N.C	BB-M802N-V21Z8-T	BB-M803N-V21Z8-T	BB-M802N-V21Z8-R	BB-M803N-V21Z8-R	
			PNP N.O	BB-M802P-V11Z8-T	BB-M803P-V11Z8-T	BB-M802P-V11Z8-R	BB-M803P-V11Z8-R	
			PNP N.C	BB-M802P-V21Z8-T	BB-M803P-V21Z8-T	BB-M802P-V21Z8-R	BB-M803P-V21Z8-R	
Exterior structure	M8*1mm		M8*1mm		M8*1mm		M8*1mm	
Sensing distance	2mm(Flush)		3mm (Quasi-Flush)		2mm(Flush)		3mm (Quasi-Flush)	
Switching frequency	2000Hz		1000H		2000Hz		1000H	
Operating voltage	10...30VDC(±10%)							
Voltage drop	≤2.0V							
Load current	100mA							
Leakage current	≤0.01mA							
No-load current	≤10mA(24V)							
Hysteresis	<15%(Sr)							
Repeatability	<1.0%(Sr)							
Switch protection	Short-circuit protection, Polarity reversal protection,Power-on protection							
LED indicator	With (Action: LED Indicator Lights Up)							
Ambient temperature	-25...70℃							
Ingress protection	IP67							
Housing material	Stainless steel							
Sensing face material	POM							
Connectors	M8, 0.3m Cable with connector							
Accessories	B8-3GV2/B8-3WV2							

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X18 Cable with connector ①
Side out cable



M8X18 Cable with connector②



Features:

- Flush mounting;
- High response frequency;
- Super short size optional

Technical data

Appearance		①		②	
Model No	NPN N.O	BN-M804N-V11P2	BN-M806N-V11P2	BN-M804N-V11P2-S	BN-M806N-V11P2-S
	NPN N.C	BN-M804N-V21P2	BN-M806N-V21P2	BN-M804N-V21P2-S	BN-M806N-V21P2-S
	PNP N.O	BN-M804P-V11P2	BN-M806P-V11P2	BN-M804P-V11P2-S	BN-M806P-V11P2-S
	PNP N.C	BN-M804P-V21P2	BN-M806P-V21P2	BN-M804P-V21P2-S	BN-M806P-V21P2-S
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)
Switching frequency		1000Hz	500Hz	1000Hz	500Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

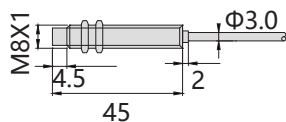
Wide Temperature

High Temperature

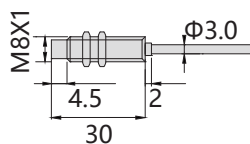
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X45 Cable ①



M8X30 Cable ②



Features:

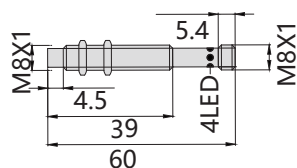
- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

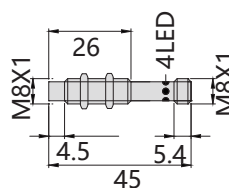
Model No	Appearance		①		②	
	NPN N.O	BN-M804N-V11S8	BN-M806N-V11S8	BN-M804N-V11S8-S	BN-M806N-V11S8-S	
	NPN N.C	BN-M804N-V21S8	BN-M806N-V21S8	BN-M804N-V21S8-S	BN-M806N-V21S8-S	
	PNP N.O	BN-M804P-V11S8	BN-M806P-V11S8	BN-M804P-V11S8-S	BN-M806P-V11S8-S	
	PNP N.C	BN-M804P-V21S8	BN-M806P-V21S8	BN-M804P-V21S8-S	BN-M806P-V21S8-S	
Cylindrical	Exterior structure	M8*1mm	M8*1mm	M8*1mm	M8*1mm	
Rectangular	Sensing distance	4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)	
	Switching frequency	1000Hz	500Hz	1000Hz	500Hz	
Namur	Operating voltage	10...30VDC(±10%)				
Metalface	Voltage drop	≤2.0V				
	Load current	100mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)				
	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Stainless steel				
	Sensing face material	POM				
	Connectors	M8 Connector				
	Accessories	B8-3GV2/B8-3WV2				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

M8X60 Connector ①



M8X45 Connector ②



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	NPN N.O	BN-M804N-C11S12	BN-M806N-C11S12	BN-M804N-C11S12-S	BN-M806N-C11S12-S
	NPN N.C	BN-M804N-C21S12	BN-M806N-C21S12	BN-M804N-C21S12-S	BN-M806N-C21S12-S
	PNP N.O	BN-M804P-C11S12	BN-M806P-C11S12	BN-M804P-C11S12-S	BN-M806P-C11S12-S
	PNP N.C	BN-M804P-C21S12	BN-M806P-C21S12	BN-M804P-C21S12-S	BN-M806P-C21S12-S
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)
Switching frequency		1000Hz	500Hz	1000Hz	500Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

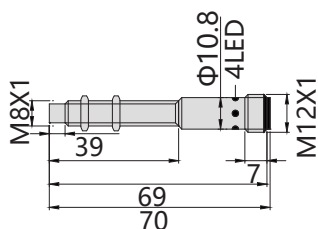
Ring probe

Wide
TemperatureHigh
Temperature

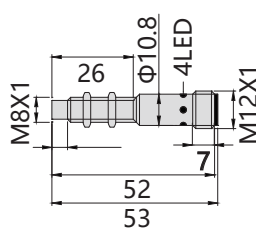
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X70 Connector ①



M8X53 Connector ②



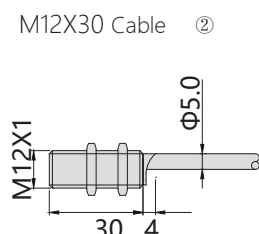
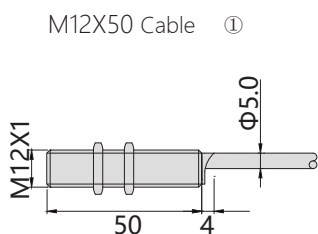
Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Model No	Appearance		①		②	
	NPN N.O	BB-M1204N-C11P2	BB-M1206N-C11P2	BB-M1204N-C11P2-S	BB-M1206N-C11P2-S	
	NPN N.C	BB-M1204N-C21P2	BB-M1206N-C21P2	BB-M1204N-C21P2-S	BB-M1206N-C21P2-S	
	PNP N.O	BB-M1204P-C11P2	BB-M1206P-C11P2	BB-M1204P-C11P2-S	BB-M1206P-C11P2-S	
	PNP N.C	BB-M1204P-C21P2	BB-M1206P-C21P2	BB-M1204P-C21P2-S	BB-M1206P-C21P2-S	
Cylindrical	Exterior structure	M12*1mm	M12*1mm	M12*1mm	M12*1mm	
Rectangular	Sensing distance	4mm (Flush)	6mm (Quasi-Flush)	4mm (Flush)	6mm (Quasi-Flush)	
	Switching frequency	3000Hz	800Hz	3000Hz	800Hz	
Namur	Operating voltage	10...30VDC (±10%)				
Metalface	Voltage drop	≤2.0V				
	Load current	200mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)				
	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Brass, nickel-plated				
	Sensing face material	PBT				
	Connectors	2m PVC Cable, 3*0.35mm ²				
	Accessories	None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Model No		①		②	
		Appearance			
					
Model No	NPN N.O	BB-M1204N-C11S12	BB-M1206N-C11S12	BB-M1204N-C11S12-S	BB-M1206N-C11S12-S
	NPN N.C	BB-M1204N-C21S12	BB-M1206N-C21S12	BB-M1204N-C21S12-S	BB-M1206N-C21S12-S
	PNP N.O	BB-M1204P-C11S12	BB-M1206P-C11S12	BB-M1204P-C11S12-S	BB-M1206P-C11S12-S
	PNP N.C	BB-M1204P-C21S12	BB-M1206P-C21S12	BB-M1204P-C21S12-S	BB-M1206P-C21S12-S
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		4mm (Flush)	6mm (Quasi-Flush)	4mm (Flush)	6mm (Quasi-Flush)
Switching frequency		3000Hz	800Hz	3000Hz	800Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

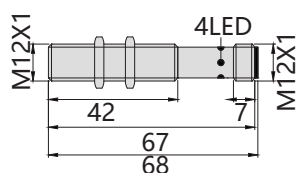
Wide Temperature

High Temperature

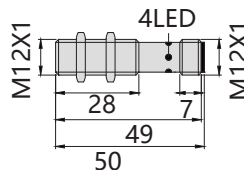
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X68 Connector ①



M12X50 Connector ②



Features:

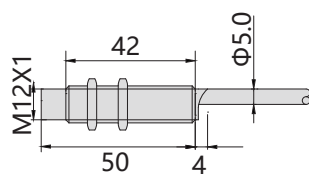
- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

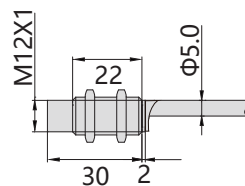
Appearance					
Model No	NPN N.O	BN-M1208N-C11P2	BN-M1210N-C11P2	BN-M1208N-C11P2-S	BN-M1210N-C11P2-S
	NPN N.C	BN-M1208N-C21P2	BN-M1210N-C21P2	BN-M1208N-C21P2-S	BN-M1210N-C21P2-S
	PNP N.O	BN-M1208P-C11P2	BN-M1210P-C11P2	BN-M1208P-C11P2-S	BN-M1210P-C11P2-S
	PNP N.C	BN-M1208P-C21P2	BN-M1210P-C21P2	BN-M1208P-C21P2-S	BN-M1210P-C21P2-S
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		8mm (Non-Flush)	10mm (Non-Flush)	8mm (Non-Flush)	10mm (Non-Flush)
Switching frequency		500Hz	400Hz	500Hz	400Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 3*0.35mm²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X50 Cable ①



M12X30 Cable ②



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	NPN N.O	BN-M1208N-C11S12	BN-M1210N-C11S12	BN-M1208N-C11S12-S	BN-M1210N-C11S12-S
	NPN N.C	BN-M1208N-C21S12	BN-M1210N-C21S12	BN-M1208N-C21S12-S	BN-M1210N-C21S12-S
	PNP N.O	BN-M1208P-C11S12	BN-M1210P-C11S12	BN-M1208P-C11S12-S	BN-M1210P-C11S12-S
	PNP N.C	BN-M1208P-C21S12	BN-M1210P-C21S12	BN-M1208P-C21S12-S	BN-M1210P-C21S12-S
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		8mm (Non-Flush)	10mm (Non-Flush)	8mm (Non-Flush)	10mm (Non-Flush)
Switching frequency		500Hz	400Hz	500Hz	400Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

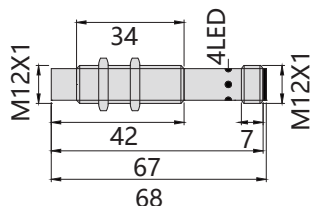
Wide Temperature

High Temperature

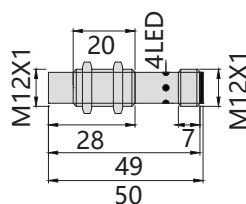
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X68 Connector ①



M12X50 Connector ②



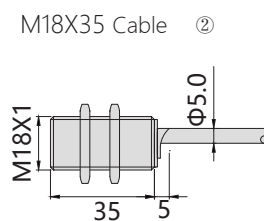
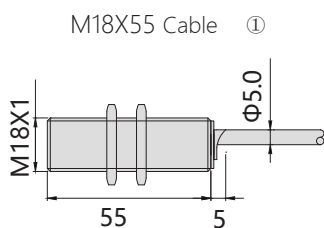
Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Model No	Appearance		①		②	
	NPN N.O	BB-M1808N-C11P2	BB-M1812N-C11P2	BB-M1808N-C11P2-S	BB-M1812N-C11P2-S	
	NPN N.C	BB-M1808N-C21P2	BB-M1812N-C21P2	BB-M1808N-C21P2-S	BB-M1812N-C21P2-S	
	PNP N.O	BB-M1808P-C11P2	BB-M1812P-C11P2	BB-M1808P-C11P2-S	BB-M1812P-C11P2-S	
	PNP N.C	BB-M1808P-C21P2	BB-M1812P-C21P2	BB-M1808P-C21P2-S	BB-M1812P-C21P2-S	
Cylindrical	Exterior structure	M18*1mm	M18*1mm	M18*1mm	M18*1mm	
Rectangular	Sensing distance	8mm (Flush)	12mm (Quasi-Flush)	8mm (Flush)	12mm (Quasi-Flush)	
	Switching frequency	3000Hz	800Hz	3000Hz	800Hz	
Namur	Operating voltage	10...30VDC (±10%)				
Metalface	Voltage drop	≤2.0V				
	Load current	200mA				
Teflon	Leakage current	≤0.01mA				
Analog	No-load current	≤10mA(24V)				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)				
	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Brass, nickel-plated				
	Sensing face material	POM				
	Connectors	2m PVC Cable, 3*0.35mm ²				
	Accessories	None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

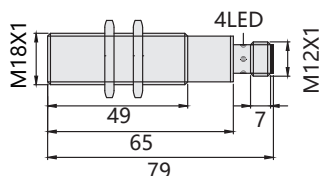
- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

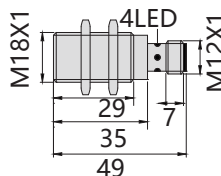
Appearance		①		②	
					
Model No	NPN N.O	BB-M1808N-C11S12	BB-M1812N-C11S12	BB-M1808N-C11S12-S	BB-M1812N-C11S12-S
	NPN N.C	BB-M1808N-C21S12	BB-M1812N-C21S12	BB-M1808N-C21S12-S	BB-M1812N-C21S12-S
	PNP N.O	BB-M1808P-C11S12	BB-M1812P-C11S12	BB-M1808P-C11S12-S	BB-M1812P-C11S12-S
	PNP N.C	BB-M1808P-C21S12	BB-M1812P-C21S12	BB-M1808P-C21S12-S	BB-M1812P-C21S12-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		8mm (Flush)	12mm (Quasi-Flush)	8mm (Flush)	12mm (Quasi-Flush)
Switching frequency		3000Hz	800Hz	3000Hz	800Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection ,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X79 Connector ①



M18X48 Connector ②



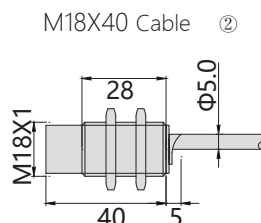
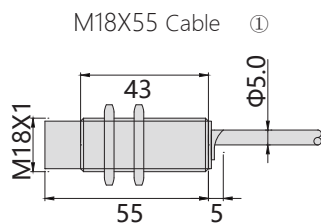
Features:

- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance					
		①		②	
Model No	NPN N.O	BN-M1816N-C11P2	BN-M1820N-C11P2	BN-M1816N-C11P2-S	BN-M1820N-C11P2-S
	NPN N.C	BN-M1816N-C21P2	BN-M1820N-C21P2	BN-M1816N-C21P2-S	BN-M1820N-C21P2-S
	PNP N.O	BN-M1816P-C11P2	BN-M1820P-C11P2	BN-M1816P-C11P2-S	BN-M1820P-C11P2-S
	PNP N.C	BN-M1816P-C21P2	BN-M1820P-C21P2	BN-M1816P-C21P2-S	BN-M1820P-C21P2-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		16mm (Non-Flush)	20mm (Non-Flush)	16mm (Non-Flush)	20mm (Non-Flush)
Switching frequency		500Hz	400Hz	500Hz	400Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.35mm ²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	NPN N.O	BN-M1816N-C11S12	BN-M1820N-C11S12	BN-M1816N-C11S12-S	BN-M1820N-C11S12-S
	NPN N.C	BN-M1816N-C21S12	BN-M1820N-C21S12	BN-M1816N-C21S12-S	BN-M1820N-C21S12-S
	PNP N.O	BN-M1816P-C11S12	BN-M1820P-C11S12	BN-M1816P-C11S12-S	BN-M1820P-C11S12-S
	PNP N.C	BN-M1816P-C21S12	BN-M1820P-C21S12	BN-M1816P-C21S12-S	BN-M1820P-C21S12-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		16mm (Non-Flush)	20mm (Non-Flush)	16mm (Non-Flush)	20mm (Non-Flush)
Switching frequency		500Hz	400Hz	500Hz	400Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

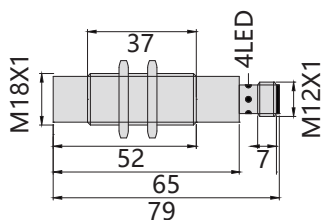
Wide Temperature

High Temperature

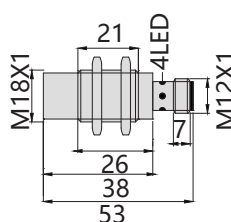
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X79 Connector ①



M18X53 Connector ②



Features:

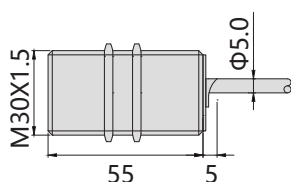
- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

	Appearance				
	Model No	NPN N.O	BB-M3010N-C11P2	BB-M3016N-C11P2	BB-M3022N-C11P2
		NPN N.C	BB-M3010N-C21P2	BB-M3016N-C21P2	BB-M3022N-C21P2
		PNP N.O	BB-M3010P-C11P2	BB-M3016P-C11P2	BB-M3022P-C11P2
		PNP N.C	BB-M3010P-C21P2	BB-M3016P-C21P2	BB-M3022P-C21P2
Cylindrical	Exterior structure	M30*1.5mm		M30*1.5mm	M30*1.5mm
Rectangular	Sensing distance	10mm (Flush)		16mm (Flush)	22mm (Quasi-Flush)
	Switching frequency	300Hz		300Hz	100Hz
Namur	Operating voltage	10...30VDC (±10%)			
Metalface	Voltage drop	≤2.0V			
	Load current	200mA			
Teflon	Leakage current	≤0.01mA			
Analog	No-load current	≤10mA(24V)			
	Hysteresis	<15%(Sr)			
Ring probe	Repeatability	<1.0%(Sr)			
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection			
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)			
	Ambient temperature	-25...70°C			
Factor 1	Ingress protection	IP67			
	Housing material	Brass, nickel-plated			
	Sensing face material	PBT			
	Connectors	2m PVC Cable, 3*0.35mm²			
	Accessories	None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

M30X55 Cable ①



Features:

- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance				
Model No	NPN N.O	BB-M3010N-C11P2-S	BB-M3016N-C11P2-S	BB-M3022N-C11P2-S
	NPN N.C	BB-M3010N-C21P2-S	BB-M3016N-C21P2-S	BB-M3022N-C21P2-S
	PNP N.O	BB-M3010P-C11P2-S	BB-M3016P-C11P2-S	BB-M3022P-C11P2-S
	PNP N.C	BB-M3010P-C21P2-S	BB-M3016P-C21P2-S	BB-M3022P-C21P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm (Flush)	16mm (Flush)	22mm (Quasi-Flush)
Switching frequency		300Hz	300Hz	100Hz
Operating voltage		10...30VDC (±10%)		
Voltage drop		≤2.0V		
Load current		200mA		
Leakage current		≤0.01mA		
No-load current		≤10mA(24V)		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Brass, nickel-plated		
Sensing face material		PBT		
Connectors		2m PVC Cable, 3*0.35mm ²		
Accessories		None		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

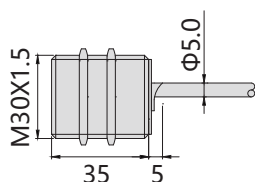
Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X35 Cable ①



Features:

- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance

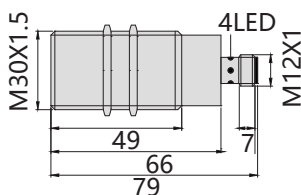


①

Model No	NPN N.O	BB-M3010N-C11S12	BB-M3016N-C11S12	BB-M3022N-C11S12
	NPN N.C	BB-M3010N-C21S12	BB-M3016N-C21S12	BB-M3022N-C21S12
	PNP N.O	BB-M3010P-C11S12	BB-M3016P-C11S12	BB-M3022P-C11S12
	PNP N.C	BB-M3010P-C21S12	BB-M3016P-C21S12	BB-M3022P-C21S12
Cylindrical	Exterior structure	M30*1.5mm	M30*1.5mm	M30*1.5mm
Rectangular	Sensing distance	10mm (Flush)	16mm (Flush)	22mm (Quasi-Flush)
	Switching frequency	300Hz	300Hz	100Hz
Namur	Operating voltage	10...30VDC (±10%)		
Metalface	Voltage drop	≤2.0V		
	Load current	200mA		
Teflon	Leakage current	≤0.01mA		
Analog	No-load current	≤10mA(24V)		
	Hysteresis	<15%(Sr)		
Ring probe	Repeatability	<1.0%(Sr)		
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-25...70°C		
Factor 1	Ingress protection	IP67		
	Housing material	Brass, nickel-plated		
	Sensing face material	PBT		
	Connectors	M12 Connector		
	Accessories	B12-4GV2/B12-4WV2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



Features:

- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance				
Model No	NPN N.O	BB-M3010N-C11S12-S	BB-M3016N-C11S12-S	BB-M3022N-C11S12-S
	NPN N.C	BB-M3010N-C21S12-S	BB-M3016N-C21S12-S	BB-M3022N-C21S12-S
	PNP N.O	BB-M3010P-C11S12-S	BB-M3016P-C11S12-S	BB-M3022P-C11S12-S
	PNP N.C	BB-M3010P-C21S12-S	BB-M3016P-C21S12-S	BB-M3022P-C21S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm (Flush)	16mm (Flush)	22mm (Quasi-Flush)
Switching frequency		300Hz	300Hz	100Hz
Operating voltage		10...30VDC (±10%)		
Voltage drop		≤2.0V		
Load current		200mA		
Leakage current		≤0.01mA		
No-load current		≤10mA(24V)		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Brass, nickel-plated		
Sensing face material		PBT		
Connectors		M12 Connector		
Accessories		B12-4GV2/B12-4WV2		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

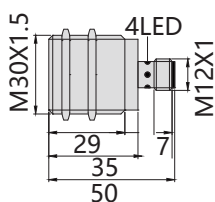
Ring probe

Wide
TemperatureHigh
Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X48 Connector ①



Features:

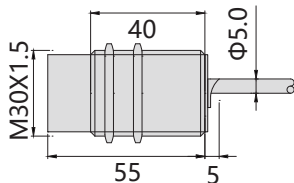
- Flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Model No	Appearance			
	NPN N.O	BN-M3015N-C11P2	BN-M3025N-C11P2	BN-M3040N-C11P2
	NPN N.C	BN-M3015N-C21P2	BN-M3025N-C21P2	BN-M3040N-C21P2
	PNP N.O	BN-M3015P-C11P2	BN-M3025P-C11P2	BN-M3040P-C11P2
	PNP N.C	BN-M3015P-C21P2	BN-M3025P-C21P2	BN-M3040P-C21P2
Cylindrical	Exterior structure	M30*1.5mm	M30*1.5mm	M30*1.5mm
	Sensing distance	15mm (Non-Flush)	25mm (Non-Flush)	40mm (Non-Flush)
Rectangular	Switching frequency	300Hz	300Hz	100Hz
Namur	Operating voltage	10...30VDC (±10%)		
Metalface	Voltage drop	≤2.0V		
	Load current	200mA		
Teflon	Leakage current	≤0.01mA		
Analog	No-load current	≤10mA(24V)		
	Hysteresis	<15%(Sr)		
Ring probe	Repeatability	<1.0%(Sr)		
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-25...70°C		
Factor 1	Ingress protection	IP67		
	Housing material	Brass, nickel-plated		
	Sensing face material	PBT		
	Connectors	2m PVC Cable, 3*0.35mm ²		
	Accessories	None		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

M30X55 Cable ①



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance				
Model No	NPN N.O	BN-M3015N-C11P2-S	BN-M3025N-C11P2-S	BN-M3040N-C11P2-S
	NPN N.C	BN-M3015N-C21P2-S	BN-M3025N-C21P2-S	BN-M3040N-C21P2-S
	PNP N.O	BN-M3015P-C11P2-S	BN-M3025P-C11P2-S	BN-M3040P-C11P2-S
	PNP N.C	BN-M3015P-C21P2-S	BN-M3025P-C21P2-S	BN-M3040P-C21P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	40mm (Non-Flush)
Switching frequency		300Hz	300Hz	100Hz
Operating voltage		10...30VDC (±10%)		
Voltage drop		≤2.0V		
Load current		200mA		
Leakage current		≤0.01mA		
No-load current		≤10mA(24V)		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Brass, nickel-plated		
Sensing face material		PBT		
Connectors		2m PVC Cable, 3*0.35mm ²		
Accessories		None		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

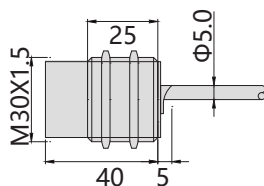
Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X40 Cable ①



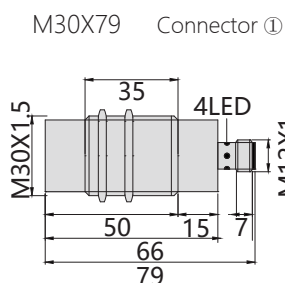
Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Model No	Appearance				①
	NPN N.O	BN-M3015N-C11S12	BN-M3025N-C11S12	BN-M3040N-C11S12	
	NPN N.C	BN-M3015N-C21S12	BN-M3025N-C21S12	BN-M3040N-C21S12	
	PNP N.O	BN-M3015P-C11S12	BN-M3025P-C11S12	BN-M3040P-C11S12	
	PNP N.C	BN-M3015P-C21S12	BN-M3025P-C21S12	BN-M3040P-C21S12	
Cylindrical	Exterior structure	M30*1.5mm	M30*1.5mm	M30*1.5mm	
Rectangular	Sensing distance	15mm (Non-Flush)	25mm (Non-Flush)	40mm (Non-Flush)	
	Switching frequency	300Hz	300Hz	100Hz	
Namur	Operating voltage	10...30VDC (±10%)			
	Voltage drop	≤2.0V			
Metalface	Load current	200mA			
Teflon	Leakage current	≤0.01mA			
Analog	No-load current	≤10mA(24V)			
	Hysteresis	<15%(Sr)			
Ring probe	Repeatability	<1.0%(Sr)			
Wide Temperature	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection			
	LED indicator	With (Action: LED Indicator Lights Up)			
High Temperature	Ambient temperature	-25...70°C			
Factor 1	Ingress protection	IP67			
	Housing material	Brass, nickel-plated			
	Sensing face material	PBT			
	Connectors	M12 Connector			
	Accessories	B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available

Technical data

Appearance				
Model No	NPN N.O	BN-M3015N-C11S12-S	BN-M3025N-C11S12-S	BN-M3040N-C11S12-S
	NPN N.C	BN-M3015N-C21S12-S	BN-M3025N-C21S12-S	BN-M3040N-C21S12-S
	PNP N.O	BN-M3015P-C11S12-S	BN-M3025P-C11S12-S	BN-M3040P-C11S12-S
	PNP N.C	BN-M3015P-C21S12-S	BN-M3025P-C21S12-S	BN-M3040P-C21S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	40mm (Non-Flush)
Switching frequency		300Hz	300Hz	100Hz
Operating voltage		10...30VDC (±10%)		
Voltage drop		≤2.0V		
Load current		200mA		
Leakage current		≤0.01mA		
No-load current		≤10mA(24V)		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Brass,nickel-plated		
Sensing face material		PBT		
Connectors		M12Connector		
Accessories		B12-4GV2/B12-4WV2		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

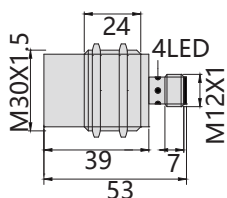
Wide Temperature

High Temperature

Factor 1

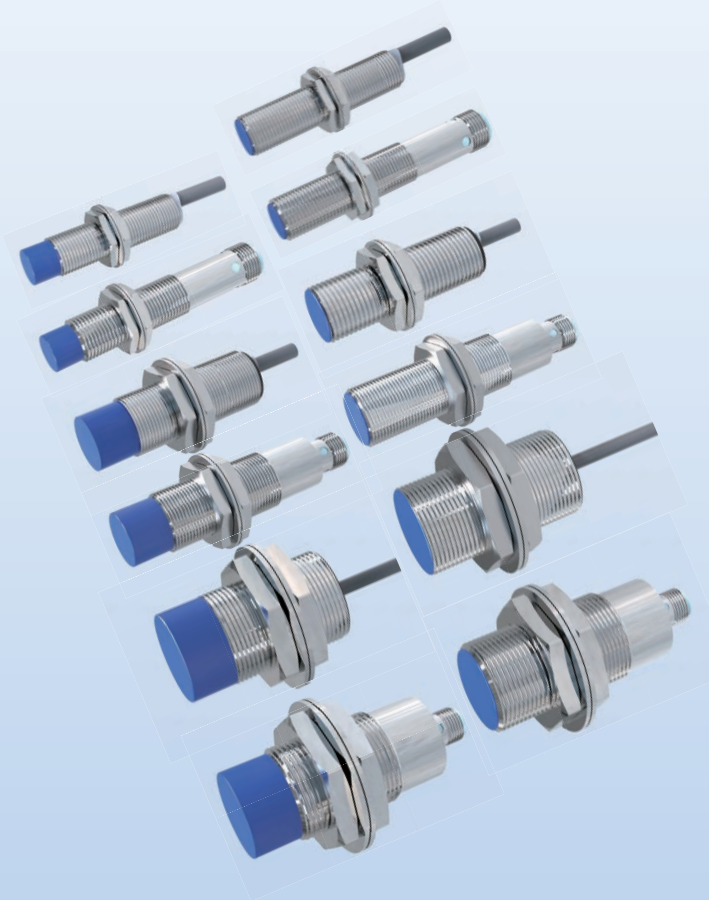
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X53 Connector ①



Features:

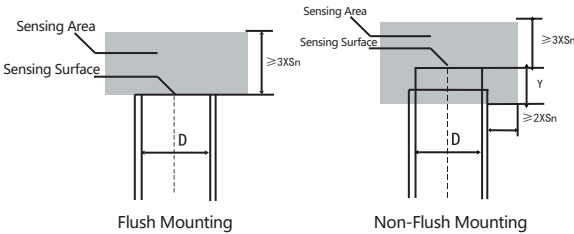
- Non-flush mounting;
- Middle and long distance detection;
- Multiple connection options available



Φ6.5 M8 M12 M18 M30
Inductive proximity sensors
Stainless steel/Brass,nickel-plated
Cylindrical
DC 2 wire

ISO9001 CE UKCA CQC RoHS

Mounting

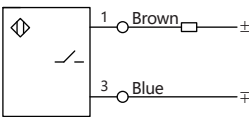


Reduction factor

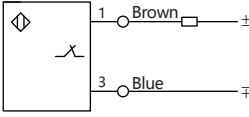
Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

DC 2 NO



DC 2 NC



PICO M8 Connector



EURO M12 Connector

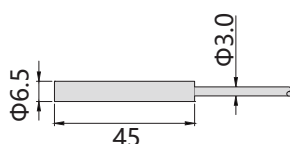


Technical data

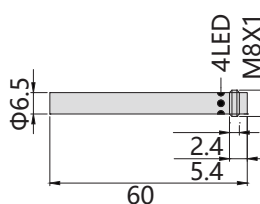
Appearance		①	②
Model No	N.O	BB-H6.502C-V13P2	BB-H6.502C-V13S8
	N.C	BB-H6.502C-V23P2	BB-H6.502C-V23S8
Exterior structure	Φ6.5mm		
Sensing distance	2mm (Flush)		
Switching frequency	1000Hz		
Operating voltage	10...60VDC (±10%)		
Voltage drop	≤4.5V		
Load current	100mA		
Residual signal	≤0.5mA		
Hysteresis	<15%(Sr)		
Repeatability	<1.0%(Sr)		
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
LED indicator	With (Action: LED Indicator Lights Up)		
Ambient temperature	-25...70°C		
Ingress protection	IP67		
Housing material	Stainless steel		
Sensing face material	POM		
Connectors	2m PVC Cable, 2*0.25mm ²	M8 Connector	
Accessories	None	B8-3GV2/B8-3WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X45 Cable ①



Φ6.5X60 Connector ②



Features:

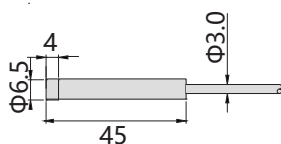
- Flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

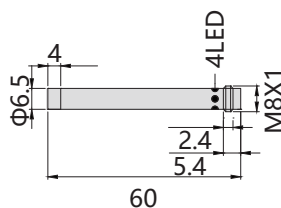
Appearance		①		②	
					
Model No	N.O	BN-H6.504C-V13P2		BN-H6.504C-V13S8	
	N.C	BN-H6.504C-V23P2		BN-H6.504C-V23S8	
Exterior structure		Φ6.5mm			
Sensing distance		4mm (Non-Flush)			
Switching frequency		500Hz			
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		100mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 2*0.25mm ²		M8 Connector	
Accessories		None		B8-3GV2/B8-3WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Φ6.5X45 Cable ①



Φ6.5X60 Connector ②



Features:

- Non-flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

Model No	Appearance	①	②	③
N.O		BB-M802C-V13P2	BB-M802C-V13S8	BB-M802C-C13S12
N.C		BB-M802C-V23P2	BB-M802C-V23S8	BB-M802C-C23S12
Exterior structure		M8*1mm		
Sensing distance		2mm (Flush)		
Switching frequency		1000Hz		
Operating voltage		10...60VDC (±10%)		
Voltage drop		≤4.5V		
Load current		100mA		
Residual signal		≤0.5mA		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Stainless steel		Brass, nickel-plated
Sensing face material		POM		
Connectors		2m PVC Cable, 2*0.25mm ²	M8 Connector	M12 Connector
Accessories		None	B8-3GV2/B8-3WV2	B12-4GV2/B12-4WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

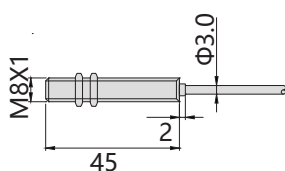
Wide Temperature

High Temperature

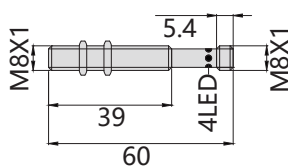
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

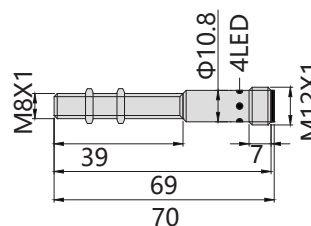
M8X45Cable ①



M8X60Connector ②



M8X70Connector ③



Features:

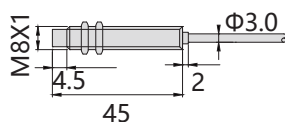
- Flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

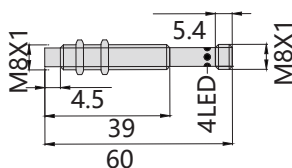
Appearance		①		②		③	
							
Model No	N.O	BN-M804C-V13P2		BN-M804C-V13S8		BN-M804C-C13S12	
	N.C	BN-M804C-V23P2		BN-M804C-V23S8		BN-M804C-C23S12	
Exterior structure		M8*1mm					
Sensing distance		4mm (Non-Flush)					
Switching frequency		500Hz					
Operating voltage		10...60VDC (±10%)					
Voltage drop		≤4.5V					
Load current		100mA					
Residual signal		≤0.5mA					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70℃					
Ingress protection		IP67					
Housing material		Stainless steel				Brass,nickel-plated	
Sensing face material		POM					
Connectors		2m PVC Cable, 2*0.25mm ²		M8 Connector		M12 Connector	
Accessories		None		B8-3GV2/B8-3WV2		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

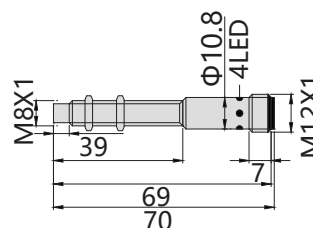
M8X45 Cable ①



M8X60 Connector ②



M8X70 Connector ③



Features:

- Non-flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

Appearance		①	②	③	④
Model No	N.O	BB-M1204C-C13P2	BB-M1204C-C13P2-S	BB-M1204C-C13S12	BB-M1204C-C13S12-S
	N.C	BB-M1204C-C23P2	BB-M1204C-C23P2-S	BB-M1204C-C23S12	BB-M1204C-C23S12-S
Exterior structure		M12*1mm			
Sensing distance		4mm (Flush)			
Switching frequency		1000Hz			
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 2*0.5mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

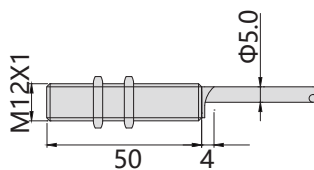
Wide Temperature

High Temperature

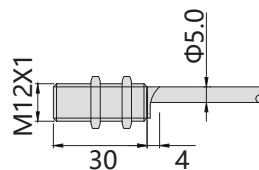
Factor 1

Dimensioned drawing (Dimensional drawing ④ corresponds to technical parameters - appearance column ①)

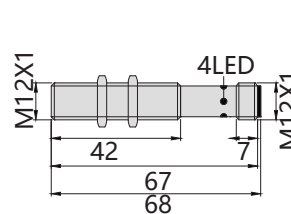
M12X50 Cable ①



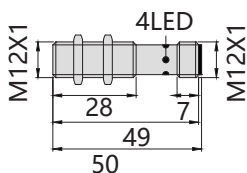
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④



Features:

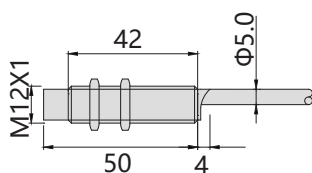
- Flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

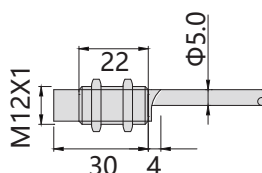
Model No	Appearance	①	②	③	④
					
N.O		BN-M1208C-C13P2	BN-M1208C-C13P2-S	BN-M1208C-C13S12	BN-M1208C-C13S12-S
N.C		BN-M1208C-C23P2	BN-M1208C-C23P2-S	BN-M1208C-C23S12	BN-M1208C-C23S12-S
Exterior structure		M12*1mm			
Sensing distance		8mm (Non-Flush)			
Switching frequency		500Hz			
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 2*0.5mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

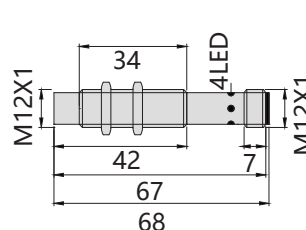
M12X50 Cable ①



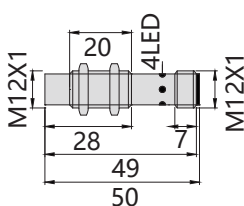
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④



Features:

- Non-flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

Appearance		①	②	③	④
Model No	N.O	BB-M1808C-C13P2	BB-M1808C-C13P2-S	BB-M1808C-C13S12	BB-M1808C-C13S12-S
	N.C	BB-M1808C-C23P2	BB-M1808C-C23P2-S	BB-M1808C-C23S12	BB-M1808C-C23S12-S
Exterior structure	M18*1mm				
Sensing distance	8mm (Flush)				
Switching frequency	500Hz				
Operating voltage	10...60VDC (±10%)				
Voltage drop	≤4.5V				
Load current	200mA				
Residual signal	≤0.5mA				
Hysteresis	<15%(Sr)				
Repeatability	<1.0%(Sr)				
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
LED indicator	With (Action: LED Indicator Lights Up)				
Ambient temperature	-25...70°C				
Ingress protection	IP67				
Housing material	Brass, nickel-plated				
Sensing face material	POM				
Connectors	2m PVC Cable, 2*0.5mm ²			M12 Connector	
Accessories	None			B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

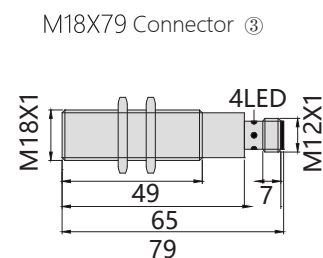
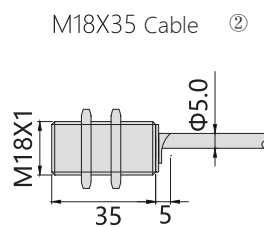
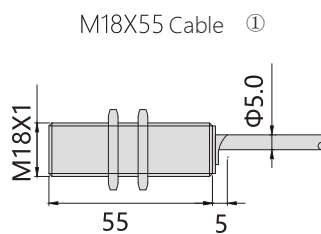
Ring probe

Wide Temperature

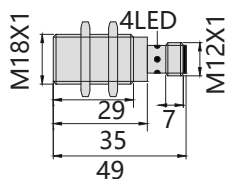
High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



M18X48 Connector ④



Features:

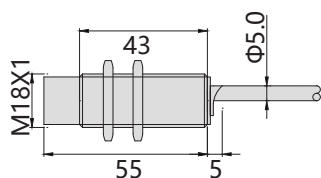
- Flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

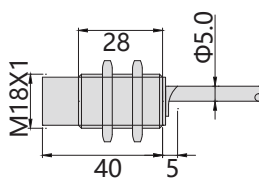
Model No	Appearance	①	②	③	④
		N.O	N.O	N.O	N.O
		BN-M1816C-C13P2	BN-M1816C-C13P2-S	BN-M1816C-C13S12	BN-M1816C-C13S12-S
		BN-M1816C-C23P2	BN-M1816C-C23P2-S	BN-M1816C-C23S12	BN-M1816C-C23S12-S
Exterior structure		M18*1mm			
Sensing distance		16mm (Non-Flush)			
Switching frequency		300Hz			
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 2*0.5mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

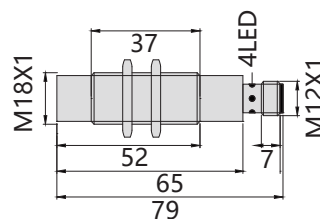
M18X55 Cable ①



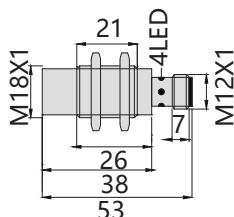
M18X40 Cable ②



M18X79 Connector ③



M18X53 Connector ④



Features:

- Non-flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	N.O	BB-M3010C-C13P2	BB-M3016C-C13P2	BB-M3010C-C13P2-S	BB-M3016C-C13P2-S
	N.C	BB-M3010C-C23P2	BB-M3016C-C23P2	BB-M3010C-C23P2-S	BB-M3016C-C23P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm(Flush)	16mm(Flush)	10mm(Flush)	16mm(Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 2*0.5mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

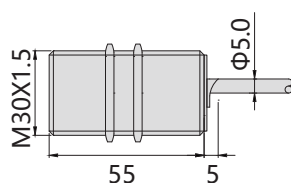
Wide Temperature

High Temperature

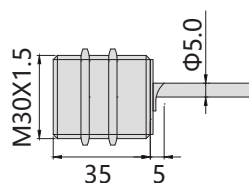
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X55 Cable ①



M30X35 Cable ②



Features:

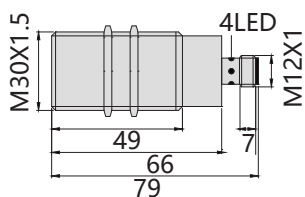
- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

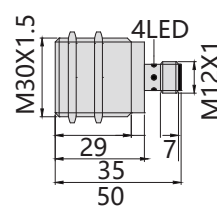
Model No	Appearance	①		②	
		BB-M3010C-C13S12	BB-M3016C-C13S12	BB-M3010C-C13S12-S	BB-M3016C-C13S12-S
Model No	Appearance	BB-M3010C-C23S12	BB-M3016C-C23S12	BB-M3010C-C23S12-S	BB-M3016C-C23S12-S
		BB-M3010C-C23S12	BB-M3016C-C23S12	BB-M3010C-C23S12-S	BB-M3016C-C23S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm(Flush)	16mm(Flush)	10mm(Flush)	16mm(Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



M30X48 Connector ②



Features:

- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	N.O	BN-M3015C-C13P2	BN-M3025C-C13P2	BN-M3015C-C13P2-S	BN-M3025C-C13P2-S
	N.C	BN-M3015C-C23P2	BN-M3025C-C23P2	BN-M3015C-C23P2-S	BN-M3025C-C23P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	15mm (Non-Flush)	25mm (Non-Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 2*0.5mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

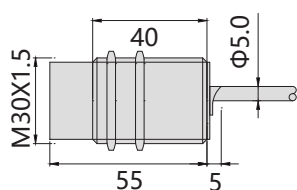
Wide Temperature

High Temperature

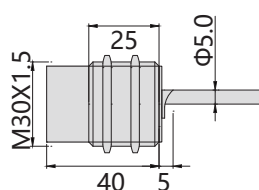
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X55 Cable ①



M30X40 Cable ②



Features:

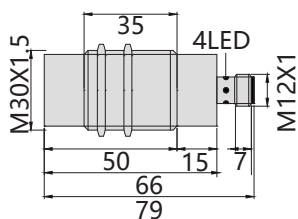
- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

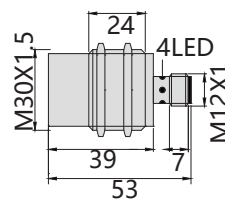
Model No	Appearance	①		②	
		N.O	N.C	N.O	N.C
		BN-M3015C-C13S12	BN-M3025C-C13S12	BN-M3015C-C13S12-S	BN-M3025C-C13S12-S
		BN-M3015C-C23S12	BN-M3025C-C23S12	BN-M3015C-C23S12-S	BN-M3025C-C23S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	15mm (Non-Flush)	25mm (Non-Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...60VDC (±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



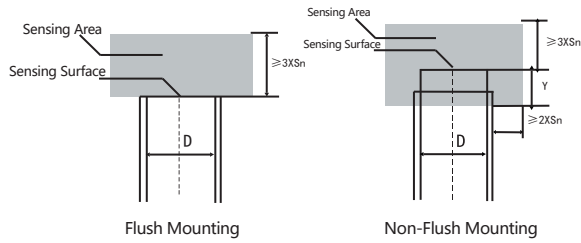
M30X53 Connector ②



Features:

- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Mounting

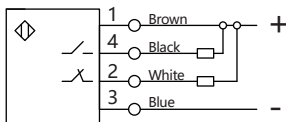


Reduction factor

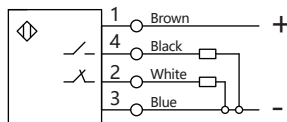
Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

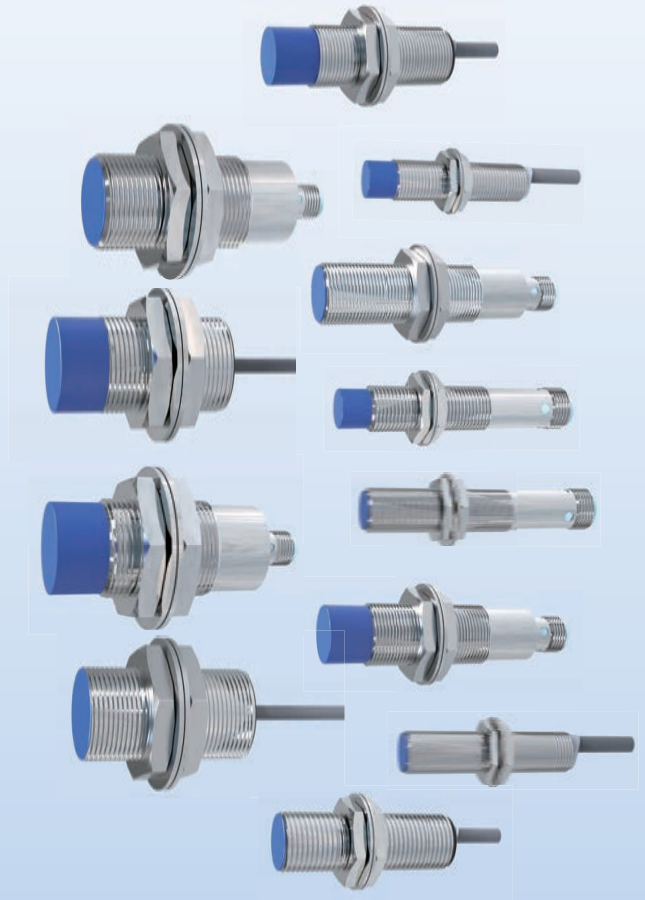
DC NPN NO+NC



DC PNP NO+NC



EURO M12 Connector

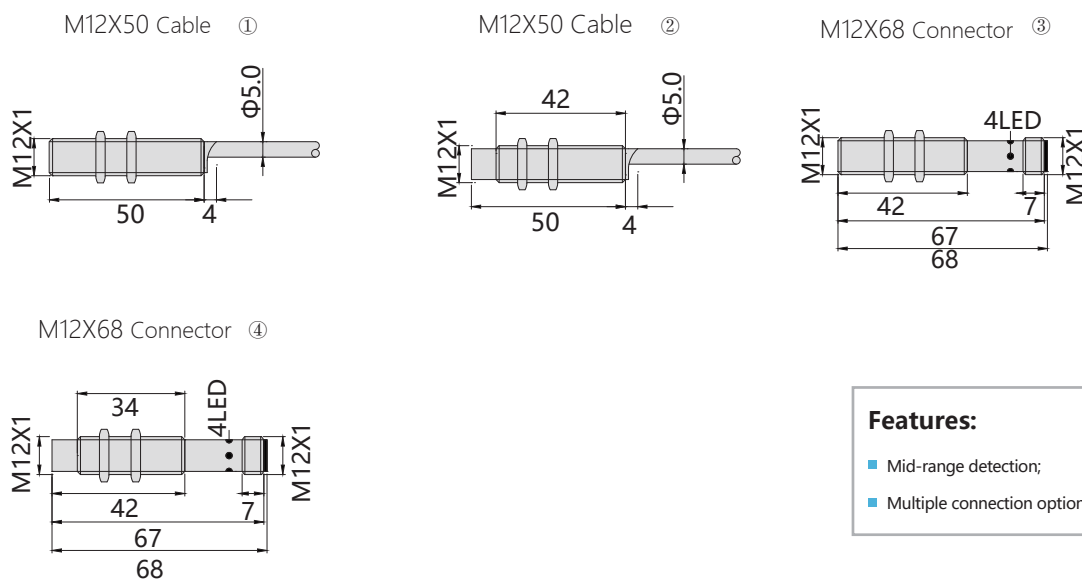


M12 M18 M30
Inductive proximity sensors
 Brass,nickel-plated
Cylindrical
 DC 4 wire

Technical data

Model No	Appearance	①	②	③	④
					
NPN N.O+N.C		BB-M1204N-C31P2	BN-M1208N-C31P2	BB-M1204N-C31S12	BN-M1208N-C31S12
PNP N.O+N.C		BB-M1204P-C31P2	BN-M1208P-C31P2	BB-M1204P-C31S12	BN-M1208P-C31S12
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		4mm (Flush)	8mm (Non-Flush)	4mm (Flush)	8mm (Non-Flush)
Switching frequency		3000Hz	500Hz	3000Hz	500Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 4*0.25mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Mid-range detection;
- Multiple connection options available

Technical data

Appearance		①	②	③	④
Model No	NPN N.O+N.C	BB-M1808N-C31P2	BB-M1808N-C31P2-S	BB-M1808N-C31S12	BB-M1808N-C31S12-S
	PNP N.O+N.C	BB-M1808P-C31P2	BB-M1808P-C31P2-S	BB-M1808P-C31S12	BB-M1808P-C31S12-S
Exterior structure		M18*1mm			
Sensing distance		8mm (Flush)			
Switching frequency		3000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 4*0.25mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

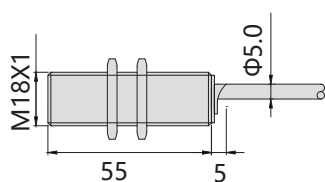
Wide Temperature

High Temperature

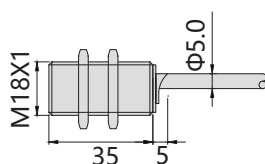
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

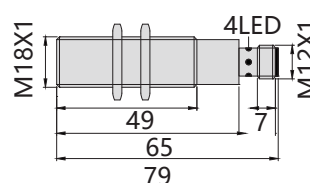
M18X55 Cable ①



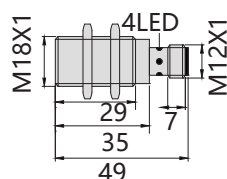
M18X35 Cable ②



M18X79 Connector ③



M18X48 Connector ④



Features:

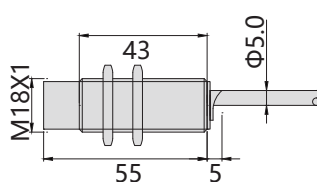
- Flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

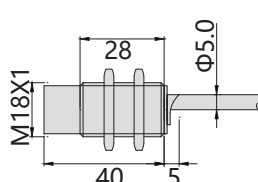
		①	②	③	④
Model No	NPN N.O+N.C	BN-M1816N-C31P2	BN-M1816N-C31P2-S	BN-M1816N-C31S12	BN-M1816N-C31S12-S
	PNP N.O+N.C	BN-M1816P-C31P2	BN-M1816P-C31P2-S	BN-M1816P-C31S12	BN-M1816P-C31S12-S
Exterior structure		M18*1mm			
Sensing distance		16mm (Non-Flush)			
Switching frequency		300Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 4*0.25mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

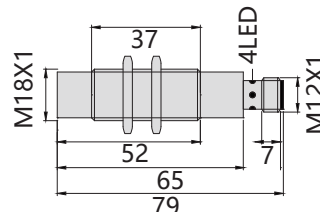
M18X55 Cable ①



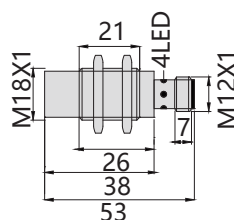
M18X40 Cable ②



M18X79 Connector ③



M18X53 Connector ④



Features:

- Non-flush mounting;
- Mid-range detection;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	NPN N.O+N.C	BB-M3010N-C31P2	BB-M3016N-C31P2	BB-M3010N-C31P2-S	BB-M3016N-C31P2-S
	PNP N.O+N.C	BB-M3010P-C31P2	BB-M3016P-C31P2	BB-M3010P-C31P2-S	BB-M3016P-C31P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm(Flush)	16mm(Flush)	10mm(Flush)	16mm(Flush)
Switching frequency		300Hz	200Hz	300Hz	200Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 4*0.25mm²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

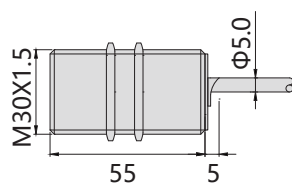
Wide
Temperature

High
Temperature

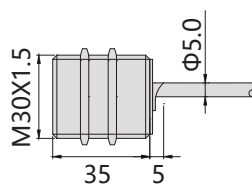
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X55 Cable ①



M30X35 Cable ②



Features:

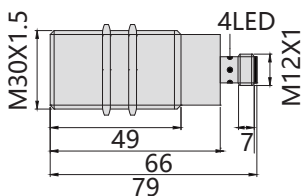
- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

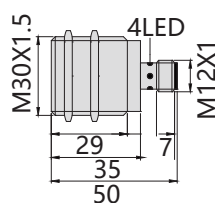
Model No	Appearance	①		②	
		BB-M3010N-C31S12	BB-M3016N-C31S12	BB-M3010N-C31S12-S	BB-M3016N-C31S12-S
Model No	Appearance	BB-M3010P-C31S12	BB-M3016P-C31S12	BB-M3010P-C31S12-S	BB-M3016P-C31S12-S
		BB-M3010P-C31S12	BB-M3016P-C31S12	BB-M3010P-C31S12-S	BB-M3016P-C31S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		10mm(Flush)	16mm(Flush)	10mm(Flush)	16mm(Flush)
Switching frequency		300Hz	200Hz	300Hz	200Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



M30X48 Connector ②



Features:

- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Model No	Appearance	①		②	
		BN-M3015N-C31P2	BN-M3025N-C31P2	BN-M3015N-C31P2-S	BN-M3025N-C31P2-S
Model No	Appearance	BN-M3015P-C31P2	BN-M3025P-C31P2	BN-M3015P-C31P2-S	BN-M3025P-C31P2-S
		BN-M3015P-C31P2	BN-M3025P-C31P2	BN-M3015P-C31P2-S	BN-M3025P-C31P2-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	15mm (Non-Flush)	25mm (Non-Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 4*0.25mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

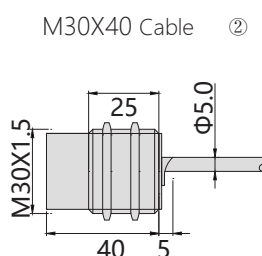
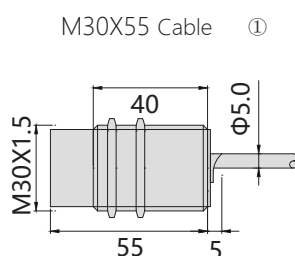
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ④ corresponds to technical parameters - appearance column ①)



Features:

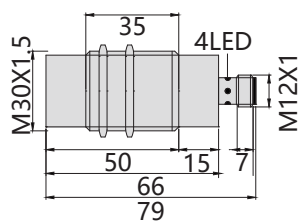
- Non-flush mounting ;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

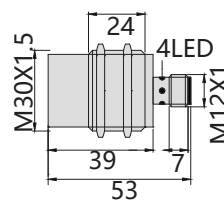
Model No	Appearance	①		②	
		BN-M3015N-C31S12	BN-M3025N-C31S12	BN-M3015N-C31S12-S	BN-M3025N-C31S12-S
Model No	Appearance	BN-M3015P-C31S12	BN-M3025P-C31S12	BN-M3015P-C31S12-S	BN-M3025P-C31S12-S
		BN-M3015P-C31S12	BN-M3025P-C31S12	BN-M3015P-C31S12-S	BN-M3025P-C31S12-S
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)	15mm (Non-Flush)	25mm (Non-Flush)
Switching frequency		300Hz	150Hz	300Hz	150Hz
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



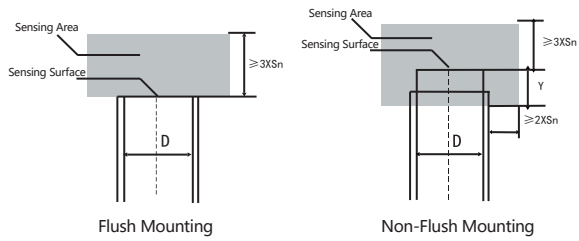
M30X53 Connector ②



Features:

- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

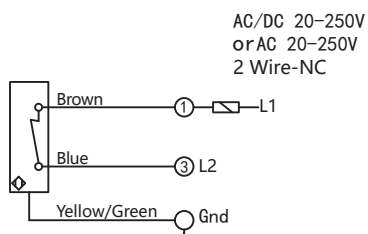
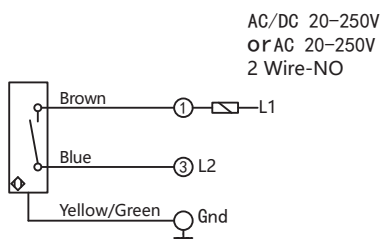
Mounting



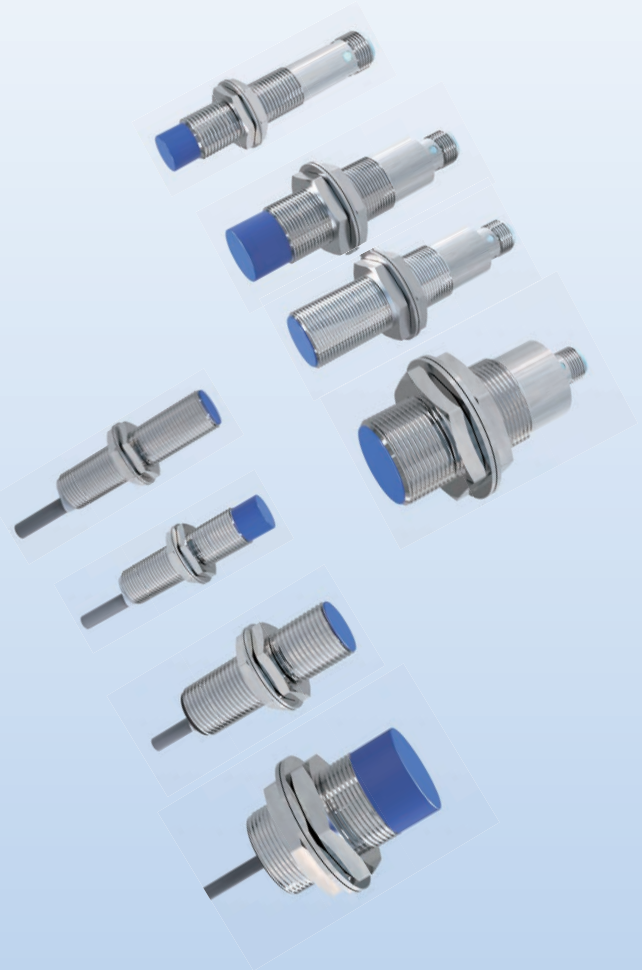
Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



EURO M12 Connector



M12 M18 M30
Inductive proximity sensors

Brass, nickel-plated

Cylindrical

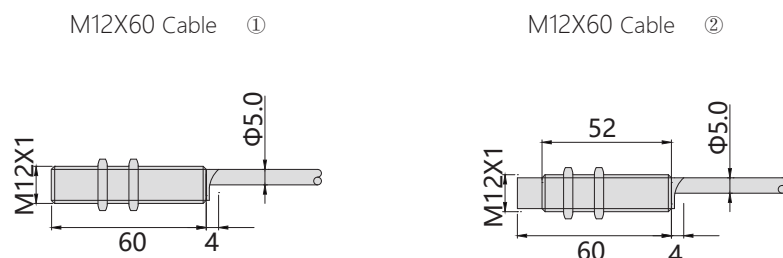
AC 2 wire/AC-DC 2 wire

ISO9001 CE UKCA CQC RoHS

Technical data

Appearance		① 		② 
Model No	N.O	BB-M1202A-C14P2	BB-M1204A-C14P2	BN-M1204A-C14P2
	N.C	BB-M1202A-C24P2	BB-M1204A-C24P2	BN-M1204A-C24P2
	N.O	BB-M1202U-C15P2	BB-M1204U-C15P2	BN-M1204U-C15P2
	N.C	BB-M1202U-C25P2	BB-M1204U-C25P2	BN-M1204U-C25P2
Exterior structure		M12*1mm	M12*1mm	M12*1mm
Sensing distance		2mm (Flush)	4mm (Flush)	4mm (Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC		
Operating voltage		20...250V AC/20...250V AC/DC		
Voltage drop		≤8V AC/≤10V AC,8V DC		
Load current		Max.load:400mA;min.Load:5mA		
		Max.load:200mA;min.Load:5mA		
Residual signal		≤1.8mA/≤2.5mA		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Polarity reversal protection,Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70℃		
Ingress protection		IP67		
Housing material		Brass,nickel-plated		
Sensing face material		PBT		
Connectors		2m PVC Cable, 3*0.35mm ²		
Accessories		None		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance		①		②
Model No	N.O	BB-M1202A-C14S12	BB-M1204A-C14S12	BN-M1204A-C14S12
	N.C	BB-M1202A-C24S12	BB-M1204A-C24S12	BN-M1204A-C24S12
	N.O	BB-M1202U-C15S12	BB-M1204U-C15S12	BN-M1204U-C15S12
	N.C	BB-M1202U-C25S12	BB-M1204U-C25S12	BN-M1204U-C25S12
Exterior structure		M12*1mm	M12*1mm	M12*1mm
Sensing distance		2mm (Flush)	4mm (Flush)	4mm (Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC		
Operating voltage		20...250V AC/20...250V AC/DC		
Voltage drop		≤8V AC/≤10V AC,8V DC		
Load current		Max.load:400mA;min.Load:5mA		
		Max.load:200mA;min.Load:5mA		
Residual signal		≤1.8mA/≤2.5mA		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Polarity reversal protection,Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		Brass,nickel-plated		
Sensing face material		PBT		
Connectors		M12 Connector		
Accessories		B12-4GV2/B12-4WV2		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

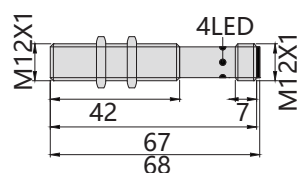
Ring probe

Wide
TemperatureHigh
Temperature

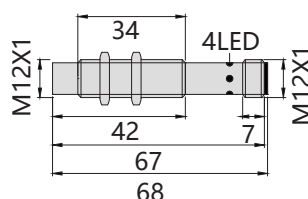
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X68 Connector ①



M12X68 Connector ②



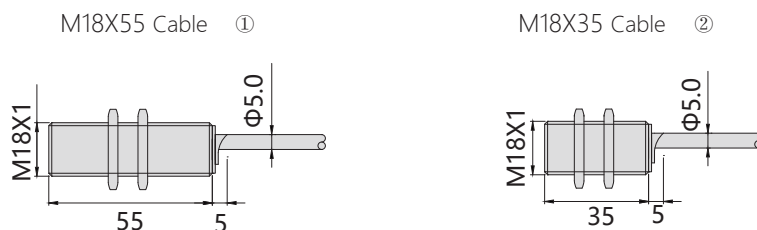
Features:

- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance					
Model No	N.O	BB-M1805A-C14P2	BB-M1808A-C14P2	BB-M1805A-C14P2-S	BB-M1808A-C14P2-S
	N.C	BB-M1805A-C24P2	BB-M1808A-C24P2	BB-M1805A-C24P2-S	BB-M1808A-C24P2-S
	N.O	BB-M1805U-C15P2	BB-M1808U-C15P2	BB-M1805U-C15P2-S	BB-M1808U-C15P2-S
	N.C	BB-M1805U-C25P2	BB-M1808U-C25P2	BB-M1805U-C25P2-S	BB-M1808U-C25P2-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		5mm (Flush)	8mm (Flush)	5mm (Flush)	8mm (Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC			
Operating voltage		20...250V AC/20...250V AC/DC			
Voltage drop		≤8V AC/≤10V AC,8V DC			
Load current		Max.load:400mA;min.Load:5mA			
		Max.load:200mA;min.Load:5mA			
Residual signal		≤1.8mA/≤2.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.35mm²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance		①		②	
Model No	N.O	BB-M1805A-C14S12	BB-M1808A-C14S12	BB-M1805A-C14S12-S	BB-M1808A-C14S12-S
	N.C	BB-M1805A-C24S12	BB-M1808A-C24S12	BB-M1805A-C24S12-S	BB-M1808A-C24S12-S
	N.O	BB-M1805U-C15S12	BB-M1808U-C15S12	BB-M1805U-C15S12-S	BB-M1808U-C15S12-S
	N.C	BB-M1805U-C25S12	BB-M1808U-C25S12	BB-M1805U-C25S12-S	BB-M1808U-C25S12-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		5mm (Flush)	8mm (Flush)	5mm (Flush)	8mm (Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC			
Operating voltage		20...250V AC/20...250V AC/DC			
Voltage drop		≤8V AC/≤10V AC,8V DC			
Load current		Max.load:400mA;min.Load:5mA			
		Max.load:200mA;min.Load:5mA			
Residual signal		≤1.8mA/≤2.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

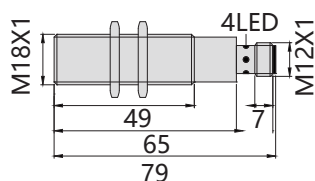
Wide Temperature

High Temperature

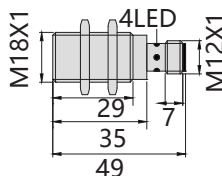
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X79 Connector ①



M18X48 Connector ②



Features:

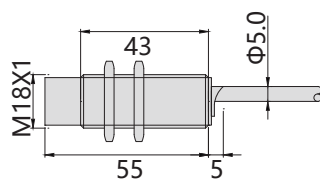
- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

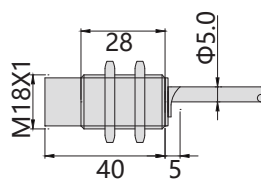
Appearance		①		②	
Model No	N.O	BN-M1808A-C14P2	BN-M1816A-C14P2	BN-M1808A-C14P2-S	BN-M1816A-C14P2-S
	N.C	BN-M1808A-C24P2	BN-M1816A-C24P2	BN-M1808A-C24P2-S	BN-M1816A-C24P2-S
	N.O	BN-M1808U-C15P2	BN-M1816U-C15P2	BN-M1808U-C15P2-S	BN-M1816U-C15P2-S
	N.C	BN-M1808U-C25P2	BN-M1816U-C25P2	BN-M1808U-C25P2-S	BN-M1816U-C25P2-S
Cylindrical	Exterior structure	M18*1mm	M18*1mm	M18*1mm	M18*1mm
Rectangular	Sensing distance	8mm (Non-Flush)	16mm (Non-Flush)	8mm (Non-Flush)	16mm (Non-Flush)
Namur	Switching frequency	25Hz/25Hz AC;40Hz DC			
	Operating voltage	20...250V AC/20...250V AC/DC			
	Voltage drop	≤8V AC/≤10V AC,8V DC			
Metalface	Load current	Max.load:400mA;min.Load:5mA			
Teflon		Max.load:200mA;min.Load:5mA			
Analog	Residual signal	≤1.8mA/≤2.5mA			
	Hysteresis	<15%(Sr)			
Ring probe	Repeatability	<1.0%(Sr)			
Wide Temperature	Switch protection	Polarity reversal protection,Power-on protection			
	LED indicator	With (Action: LED Indicator Lights Up)			
High Temperature	Ambient temperature	-25...70°C			
Factor 1	Ingress protection	IP67			
	Housing material	Brass,nickel-plated			
	Sensing face material	POM			
	Connectors	2m PVC Cable, 3*0.35mm ²			
	Accessories	None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X55 Cable ①



M18X40 Cable ②



Features:

- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance		①		②	
		①		②	
Model No	N.O	BN-M1808A-C14S12	BN-M1816A-C14S12	BN-M1808A-C14S12-S	BN-M1816A-C14S12-S
	N.C	BN-M1808A-C24S12	BN-M1816A-C24S12	BN-M1808A-C24S12-S	BN-M1816A-C24S12-S
	N.O	BN-M1808U-C15S12	BN-M1816U-C15S12	BN-M1808U-C15S12-S	BN-M1816U-C15S12-S
	N.C	BN-M1808U-C25S12	BN-M1816U-C25S12	BN-M1808U-C25S12-S	BN-M1816U-C25S12-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		8mm (Non-Flush)	16mm (Non-Flush)	8mm (Non-Flush)	16mm (Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC			
Operating voltage		20...250V AC/20...250V AC/DC			
Voltage drop		≤8V AC/≤10V AC,8V DC			
Load current		Max.load:400mA;min.Load:5mA			
		Max.load:200mA;min.Load:5mA			
Residual signal		≤1.8mA/≤2.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

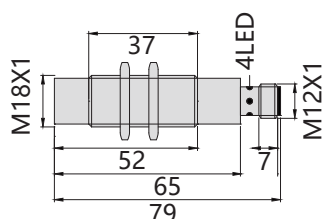
Wide Temperature

High Temperature

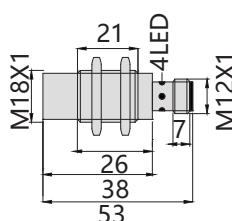
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X79 Connector ①



M18X53 Connector ②



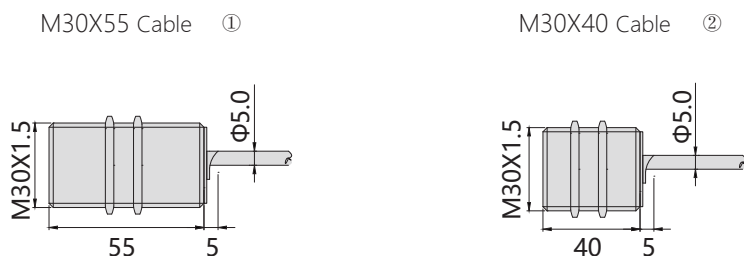
Features:

- Non-flush mounting ;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Model No	Appearance		①		②	
	N.O	BB-M3010A-C14P2	BB-M3016A-C14P2	BB-M3010A-C14P2-S	BB-M3016A-C14P2-S	
	N.C	BB-M3010A-C24P2	BB-M3016A-C24P2	BB-M3010A-C24P2-S	BB-M3016A-C24P2-S	
	N.O	BB-M3010U-C15P2	BB-M3016U-C15P2	BB-M3010U-C15P2-S	BB-M3016U-C15P2-S	
	N.C	BB-M3010U-C25P2	BB-M3016U-C25P2	BB-M3010U-C25P2-S	BB-M3016U-C25P2-S	
Cylindrical	Exterior structure	M30*1mm	M30*1mm	M30*1mm	M30*1mm	
	Sensing distance	10mm (Flush)	16mm (Flush)	10mm (Flush)	16mm (Flush)	
Rectangular	Switching frequency	25Hz/25Hz AC;40Hz DC				
Namur	Operating voltage	20...250V AC/20...250V AC/DC				
	Voltage drop	≤8V AC/≤10V AC,8V DC				
Metalface	Load current	Max.load:400mA;min.Load:5mA				
Teflon		Max.load:200mA;min.Load:5mA				
Analog	Residual signal	≤1.8mA/≤2.5mA				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Polarity reversal protection,Power-on protection				
	LED indicator	With (Action: LED Indicator Lights Up)				
High Temperature	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Brass,nickel-plated				
	Sensing face material	PBT				
	Connectors	2m PVC Cable, 3*0.35mm ²				
	Accessories	None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance			
Model No	N.O	BB-M3010A-C14S12	BB-M3016A-C14S12
	N.C	BB-M3010A-C24S12	BB-M3016A-C24S12
	N.O	BB-M3010U-C15S12	BB-M3016U-C15S12
	N.C	BB-M3010U-C25S12	BB-M3016U-C25S12
Exterior structure		M30*1mm	M30*1mm
Sensing distance		10mm (Flush)	16mm (Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC	
Operating voltage		20...250V AC/20...250V AC/DC	
Voltage drop		≤8V AC/≤10V AC,8V DC	
Load current	Max.load:400mA;min.Load:5mA		
	Max.load:200mA;min.Load:5mA		
Residual signal		≤1.8mA/≤2.5mA	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		Brass,nickel-plated	
Sensing face material		PBT	
Connectors		M12 Connector	
Accessories		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

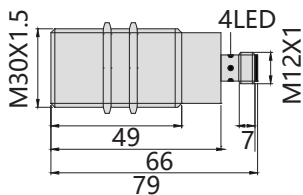
Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

M30X79 Connector ①



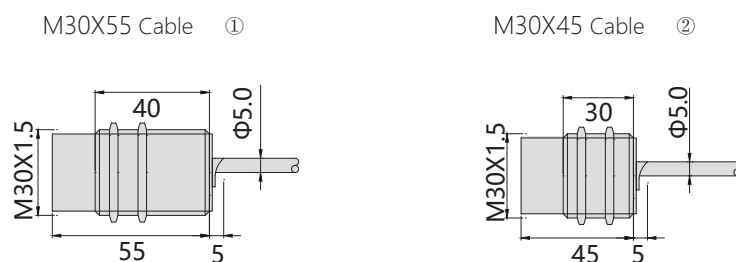
Features:

- Flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Model No	Appearance		①		②	
	N.O	BN-M3015A-C14P2	BN-M3025A-C14P2	BN-M3015A-C14P2-S	BN-M3025A-C14P2-S	
	N.C	BN-M3015A-C24P2	BN-M3025A-C24P2	BN-M3015A-C24P2-S	BN-M3025A-C24P2-S	
	N.O	BN-M3015U-C15P2	BN-M3025U-C15P2	BN-M3015U-C15P2-S	BN-M3025U-C15P2-S	
	N.C	BN-M3015U-C25P2	BN-M3025U-C25P2	BN-M3015U-C25P2-S	BN-M3025U-C25P2-S	
Cylindrical	Exterior structure	M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm	
Rectangular	Sensing distance	15mm (Non-Flush)	25mm (Non-Flush)	15mm (Non-Flush)	25mm (Non-Flush)	
Namur	Switching frequency	25Hz/25Hz AC;40Hz DC				
	Operating voltage	20...250V AC/20...250V AC/DC				
Metalface	Voltage drop	≤8V AC/≤10V AC,8V DC				
Teflon	Load current	Max.load:400mA;min.Load:5mA				
Analog		Max.load:200mA;min.Load:5mA				
	Residual signal	≤1.8mA/≤2.5mA				
	Hysteresis	<15%(Sr)				
Ring probe	Repeatability	<1.0%(Sr)				
Wide Temperature	Switch protection	Polarity reversal protection,Power-on protection				
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)				
	Ambient temperature	-25...70°C				
Factor 1	Ingress protection	IP67				
	Housing material	Brass,nickel-plated				
	Sensing face material	PBT				
	Connectors	2m PVC Cable, 3*0.35mm ²				
	Accessories	None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available

Technical data

Appearance			
Model No	N.O	BN-M3015A-C14S12	BN-M3025A-C14S12
	N.C	BN-M3015A-C24S12	BN-M3025A-C24S12
	N.O	BN-M3015U-C15S12	BN-M3025U-C15S12
	N.C	BN-M3015U-C25S12	BN-M3025U-C25S12
Exterior structure		M30*1.5mm	M30*1.5mm
Sensing distance		15mm (Non-Flush)	25mm (Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC	
Operating voltage		20...250V AC/20...250V AC/DC	
Voltage drop		≤8V AC/≤10V AC,8V DC	
Load current		Max.load:400mA;min.Load:5mA	
		Max.load:200mA;min.Load:5mA	
Residual signal		≤1.8mA/≤2.5mA	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		Brass,nickel-plated	
Sensing face material		PBT	
Connectors		M12 Connector	
Accessories		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

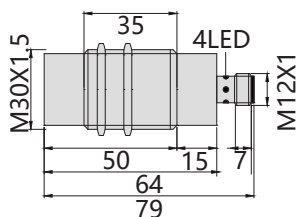
Ring probe

Wide
TemperatureHigh
Temperature

Factor 1

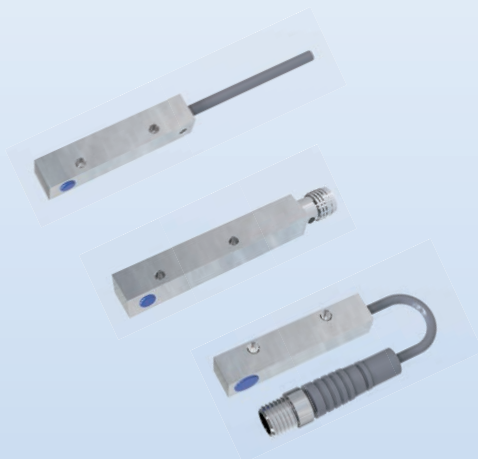
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



Features:

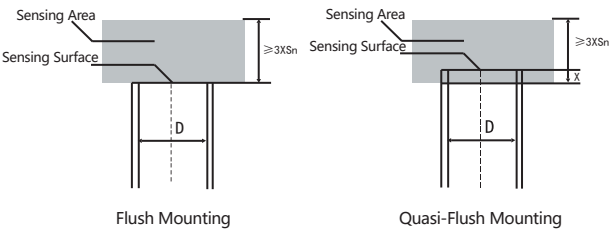
- Non-flush mounting;
- Strong anti-interference ability;
- Multiple connection options available



Q5 Q8
Inductive proximity sensors
Barss,nickel-plated
Rectangular
DC 3 wire

ISO9001 CE UKCA CQC RoHS

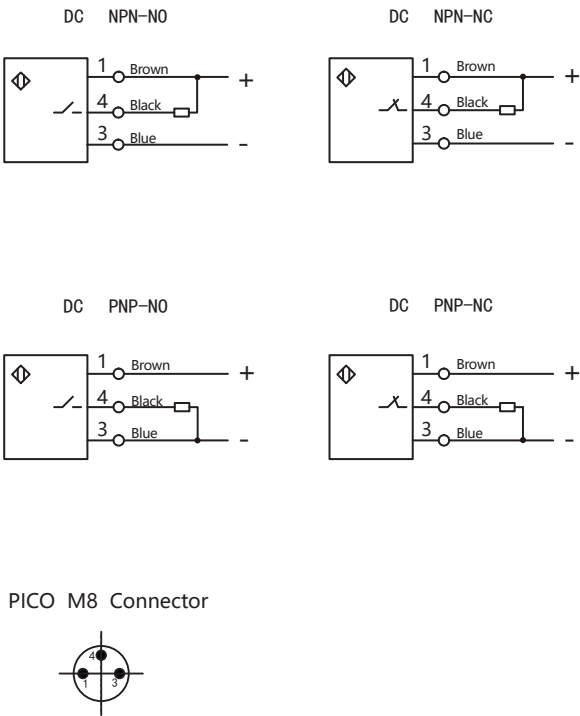
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



Technical data

Appearance		①		②	
Model No	NPN N.O	BB-Q550.8N-C11P2	BB-Q551.2N-C11P2	BB-Q550.8N-C11Z8	BB-Q551.2N-C11Z8
	NPN N.C	BB-Q550.8N-C21P2	BB-Q551.2N-C21P2	BB-Q550.8N-C21Z8	BB-Q551.2N-C21Z8
	PNP N.O	BB-Q550.8P-C11P2	BB-Q551.2P-C11P2	BB-Q550.8P-C11Z8	BB-Q551.2P-C11Z8
	PNP N.C	BB-Q550.8P-C21P2	BB-Q551.2P-C21P2	BB-Q550.8P-C21Z8	BB-Q551.2P-C21Z8
Size		5*5*26mm	5*5*26mm	5*5*26mm	5*5*26mm
Sensing distance		0.8mm (Flush)	1.2mm (Flush)	0.8mm (Flush)	1.2mm (Flush)
Switching frequency		2000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.15mm ²		M8, 0.3m Cable with connector	
Accessories		None		B8-3GV2/B8-3WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

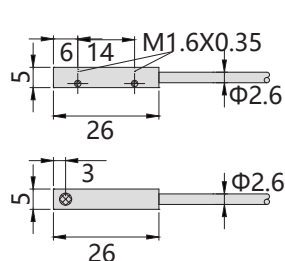
Wide Temperature

High Temperature

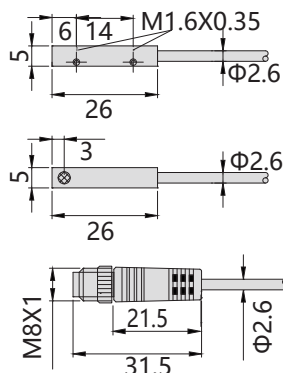
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q5X26 Cable ①



Q5X26 Cable with connector ②



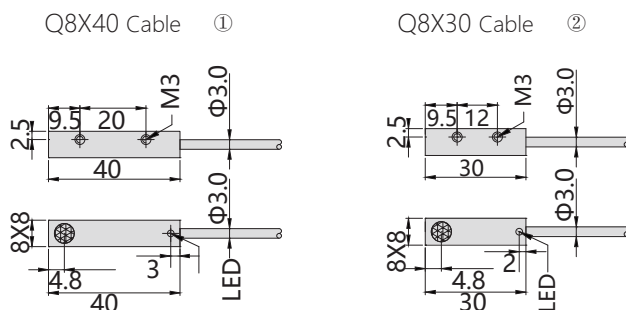
Features:

- Miniature proximity sensor;
- IC circuit;
- Can be installed in narrow and confined spaces

Technical data

Model No	Appearance		①		②	
	NPN N.O	BB-Q8802N-C11P2	BB-Q8803N-C11P2	BB-Q8802N-C11P2-S	BB-Q8803N-C11P2-S	
	NPN N.C	BB-Q8802N-C21P2	BB-Q8803N-C21P2	BB-Q8802N-C21P2-S	BB-Q8803N-C21P2-S	
	PNP N.O	BB-Q8802P-C11P2	BB-Q8803P-C11P2	BB-Q8802P-C11P2-S	BB-Q8803P-C11P2-S	
	PNP N.C	BB-Q8802P-C21P2	BB-Q8803P-C21P2	BB-Q8802P-C21P2-S	BB-Q8803P-C21P2-S	
Size		8*8*40mm	8*8*40mm	8*8*30mm	8*8*30mm	
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)	
Switching frequency		2000Hz	1000Hz	2000Hz	1000Hz	
Operating voltage		10...30VDC(±10%)				
Voltage drop		≤2.0V				
Load current		100mA				
Leakage current		≤0.01mA				
No-load current		≤10mA(24V)				
Hysteresis		<15%(Sr)				
Repeatability		<1.0%(Sr)				
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection				
LED indicator		With (Action: LED Indicator Lights Up)				
Ambient temperature		-25...70°C				
Ingress protection		IP67				
Housing material		Brass, nickel-plated				
Sensing face material		POM				
Connectors		2m PVC Cable, 3*0.18mm ²				
Accessories		None				

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Flush mounting;
- High response frequency;
- Suitable for various applications

Technical data

Appearance			
Model No	NPN N.O	BB-Q8802N-C11S8	BB-Q8803N-C11S8
	NPN N.C	BB-Q8802N-C21S8	BB-Q8803N-C21S8
	PNP N.O	BB-Q8802P-C11S8	BB-Q8803P-C11S8
	PNP N.C	BB-Q8802P-C21S8	BB-Q8803P-C21S8
Size		8*8*60mm	8*8*60mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)	
Voltage drop		≤2.0V	
Load current		100mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		Brass, nickel-plated	
Sensing face material		POM	
Connectors		M8 Connector	
Accessories		B8-3GV2/B8-3WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

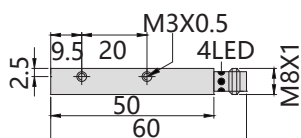
Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

Q8X60 Connector ①



Features:

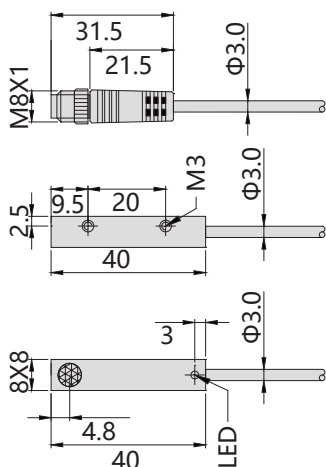
- Flush mounting;
- High response frequency;
- Suitable for various applications

Technical data

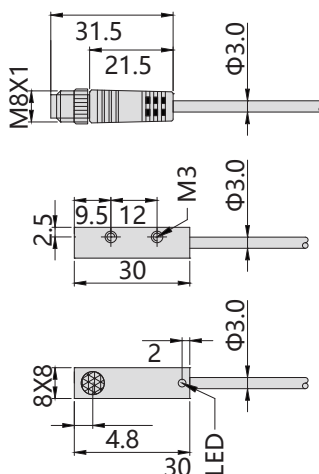
Appearance					
Model No	NPN N.O	BB-Q8802N-C11Z8	BB-Q8803N-C11Z8	BB-Q8802N-C11Z8-S	BB-Q8803N-C11Z8-S
	NPN N.C	BB-Q8802N-C21Z8	BB-Q8803N-C21Z8	BB-Q8802N-C21Z8-S	BB-Q8803N-C21Z8-S
	PNP N.O	BB-Q8802P-C11Z8	BB-Q8803P-C11Z8	BB-Q8802P-C11Z8-S	BB-Q8803P-C11Z8-S
	PNP N.C	BB-Q8802P-C21Z8	BB-Q8803P-C21Z8	BB-Q8802P-C21Z8-S	BB-Q8803P-C21Z8-S
Size		8*8*40mm	8*8*40mm	8*8*30mm	8*8*30mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		2000Hz	1000Hz	2000Hz	1000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		< 2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		POM			
Connectors		M8, 0.3m Cable with connector			
Accessories		B8-3GV2/B8-3WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q8X40 Cable with connector ①



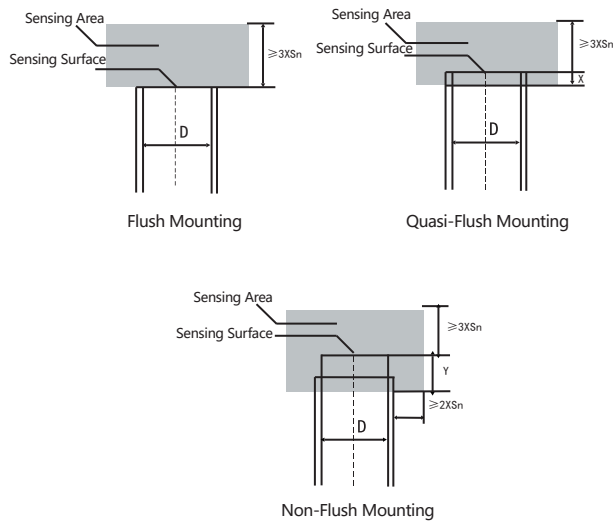
Q8X30 Cable with connector ②



Features:

- Flush mounting;
- High response frequency;
- Suitable for various applications

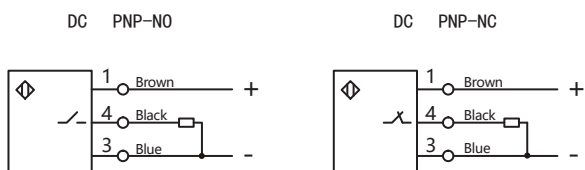
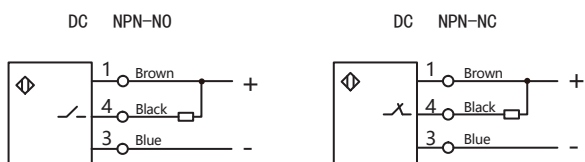
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

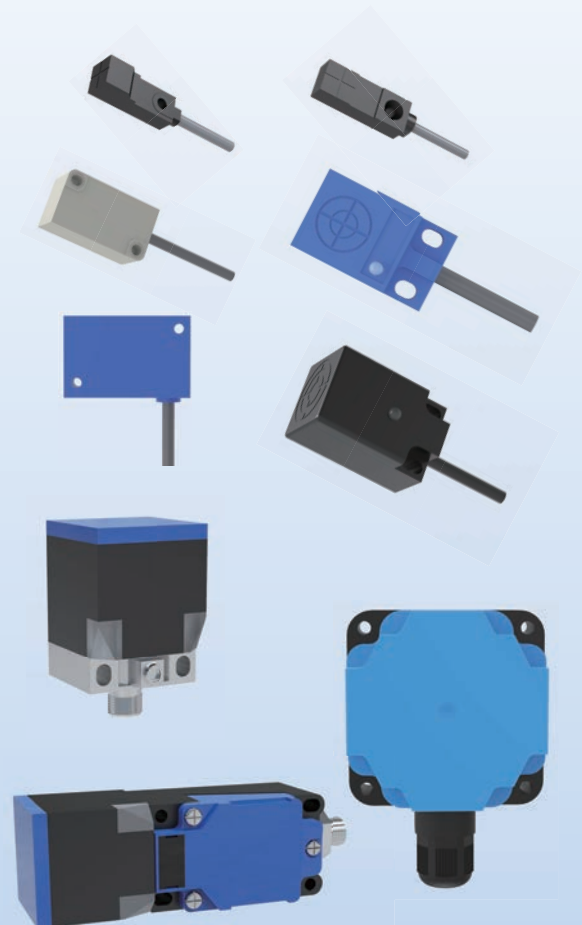
Wiring



PICO M8 Connector



EURO M12 Connector



Q8 Q10 Q12 Q15 Q17
Q18 Q25 Q28 Q30 Q40 Q80

Inductive proximity sensors

Plastic housing

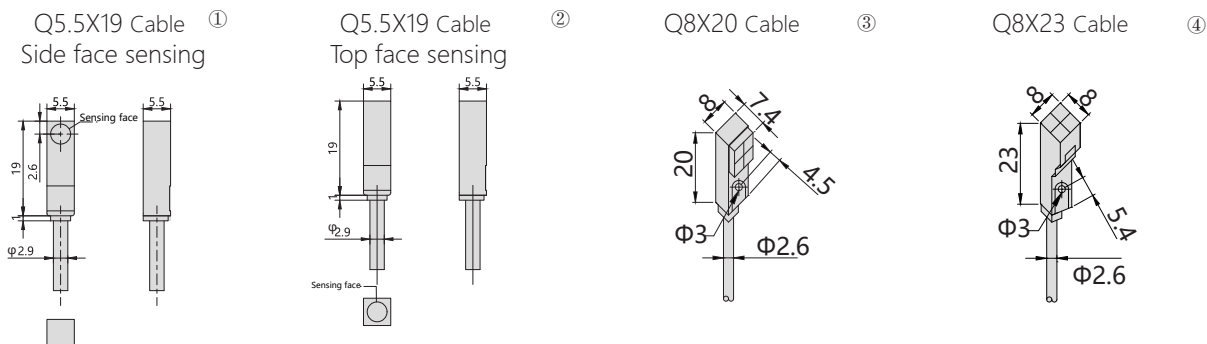
Rectangular

DC 3 wire

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BB-Q551.5N-P11P2	BB-Q551.5N-P11P2-T	BN-Q882.5N-P11P2	BN-Q882.5N-P11P2-T
	NPN N.C	BB-Q551.5N-P21P2	BB-Q551.5N-P21P2-T	BN-Q882.5N-P21P2	BN-Q882.5N-P21P2-T
	PNP N.O	BB-Q551.5P-P11P2	BB-Q551.5P-P11P2-T	BN-Q882.5P-P11P2	BN-Q882.5P-P11P2-T
	PNP N.C	BB-Q551.5P-P21P2	BB-Q551.5P-P21P2-T	BN-Q882.5P-P21P2	BN-Q882.5P-P21P2-T
Size		5.5*5.5*19mm	5.5*5.5*19mm	8*7.4*20mm	8*8*23mm
Sensing distance		1.5mm (Flush)	1.5mm (Flush)	2.5mm (Non-Flush)	2.5mm (Non-Flush)
Switching frequency		2000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		PC		PP	
Sensing face material		PC		PP	
Connectors		2m PVC Cable, 3*0.14mm ²		2m PVC Cable, 3*0.18mm ²	
Accessories		None		None	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Plastic housing;
- Wide detection range;
- Suitable for various applications

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BB-Q1002N-P11P2	BB-Q1204N-P11P2	BB-Q1304N-P11P2	BN-Q1505N-P11P2
	NPN N.C	BB-Q1002N-P21P2	BB-Q1204N-P21P2	BB-Q1304N-P21P2	BN-Q1505N-P21P2
	PNP N.O	BB-Q1002P-P11P2	BB-Q1204P-P11P2	BB-Q1304P-P11P2	BN-Q1505P-P11P2
	PNP N.C	BB-Q1002P-P21P2	BB-Q1204P-P21P2	BB-Q1304P-P21P2	BN-Q1505P-P21P2
Size		10*6*27mm	12*7.2*31.2mm	31*12*13mm	15*8.2*31.6mm
Sensing distance		2mm (Flush)	4mm (Flush)	4mm (Flush)	5mm (Non-Flush)
Switching frequency		1000Hz	1000Hz	1000Hz	500Hz
Operating voltage		10...30VDC(±10%)	10...30VDC(±10%)	10...30VDC(±10%)	10...30VDC(±10%)
Voltage drop		≤2.0V	≤2.0V	≤2.0V	≤2.0V
Load current		100mA	200mA	200mA	200mA
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		PP	ABS	PC	ABS
Sensing face material		PP	ABS	PC	ABS
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

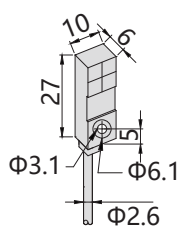
Wide Temperature

High Temperature

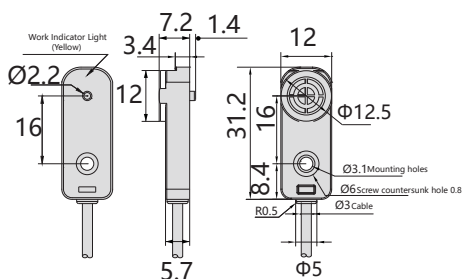
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

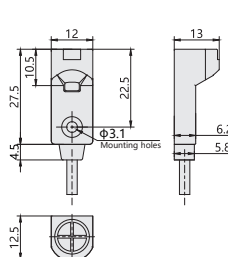
Q10 Cable ①



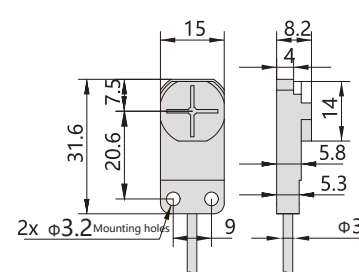
Q12 Cable ②



Q13 Cable ③



Q15 Cable ④



Features:

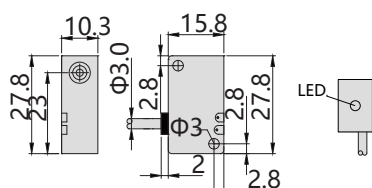
- Plastic housing;
- Wide detection range;
- Suitable for various applications

Technical data

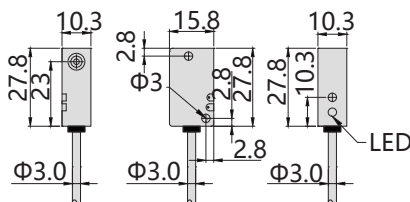
Appearance					
Model No	NPN N.O	BB-Q2802N-P11P2-T	BB-Q2803N-P11P2-T	BB-Q2802N-P11P2	BB-Q2803N-P11P2
	NPN N.C	BB-Q2802N-P21P2-T	BB-Q2803N-P21P2-T	BB-Q2802N-P21P2	BB-Q2803N-P21P2
	PNP N.O	BB-Q2802P-P11P2-T	BB-Q2803P-P11P2-T	BB-Q2802P-P11P2	BB-Q2803P-P11P2
	PNP N.C	BB-Q2802P-P21P2-T	BB-Q2803P-P21P2-T	BB-Q2802P-P21P2	BB-Q2803P-P21P2
Size		15.8*10.3*27.8mm	15.8*10.3*27.8mm	15.8*10.3*27.8mm	15.8*10.3*27.8mm
Sensing distance		2mm (Flush)	3mm (Quasi-Flush)	2mm (Flush)	3mm (Quasi-Flush)
Switching frequency		1000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		2m PVC Cable, 3*0.18mm²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q28 Side out cable ①



Q28 Cable ②



Features:

- Plastic housing;
- Wide detection range;
- Suitable for various applications

Technical data

Appearance		 ①		 ②	
Model No	NPN N.O	BN-Q2804N-P11P2-T	BN-Q2806N-P11P2-T	BN-Q2804N-P11P2	BN-Q2806N-P11P2
	NPN N.C	BN-Q2804N-P21P2-T	BN-Q2806N-P21P2-T	BN-Q2804N-P21P2	BN-Q2806N-P21P2
	PNP N.O	BN-Q2804P-P11P2-T	BN-Q2806P-P11P2-T	BN-Q2804P-P11P2	BN-Q2806P-P11P2
	PNP N.C	BN-Q2804P-P21P2-T	BN-Q2806P-P21P2-T	BN-Q2804P-P21P2	BN-Q2806P-P21P2
Size		15.8*10.3*27.8mm	15.8*10.3*27.8mm	15.8*10.3*27.8mm	15.8*10.3*27.8mm
Sensing distance		4mm (Non-Flush)	6mm (Non-Flush)	4mm (Non-Flush)	6mm (Non-Flush)
Switching frequency		1000Hz	500Hz	1000Hz	500Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		2m PVC Cable, 3*0.18mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

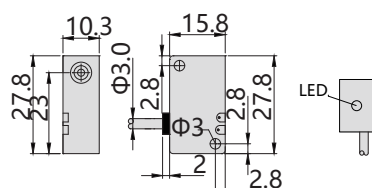
Ring probe

Wide
TemperatureHigh
Temperature

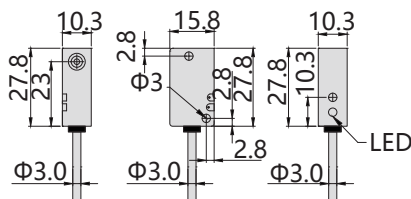
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q28 Side out cable ①



Q28 Cable ②



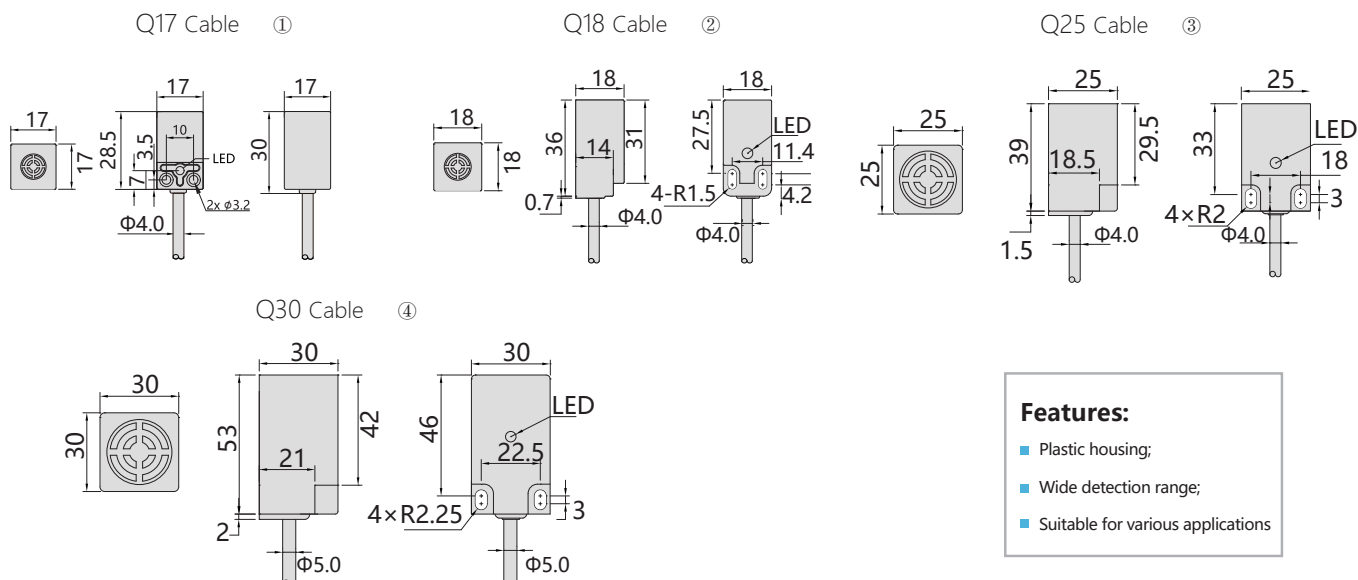
Features:

- Plastic housing;
- Wide detection range;
- Suitable for various applications

Technical data

Appearance		 ①	 ②	 ③	 ④
Model No	NPN N.O	BB-Q1705N-P11P2	BB-Q1805N-P11P2	BN-Q2510N-P11P2	BN-Q3015N-P11P2
	NPN N.C	BB-Q1705N-P21P2	BB-Q1805N-P21P2	BN-Q2510N-P21P2	BN-Q3015N-P21P2
	PNP N.O	BB-Q1705P-P11P2	BB-Q1805P-P11P2	BN-Q2510P-P11P2	BN-Q3015P-P11P2
	PNP N.C	BB-Q1705P-P21P2	BB-Q1805P-P21P2	BN-Q2510P-P21P2	BN-Q3015P-P21P2
Size		17*17*28.5mm	18*18*36mm	25*25*39mm	30*30*53mm
Sensing distance		5mm (Flush)	5mm (Flush)	10mm (Non-Flush)	15mm (Non-Flush)
Switching frequency		500Hz	1000Hz	800Hz	500Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Polarity reversal protection Power-on protection	Short-circuit protection, Polarity reversal protection,Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		ABS			
Sensing face material		ABS			
Connectors		2m PVC Cable, 3*0.25mm ²			2m PVC Cable, 3*0.35mm ²
Accessories		None			None

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)



Technical data

Appearance		①		②	
					
Model No	NPN N.O	BB-Q18C04N-P11P2		BB-Q25T02N-P11P2	BN-Q25T04N-P11P2
	NPN N.C	BB-Q18C04N-P21P2		BB-Q25T02N-P21P2	BN-Q25T04N-P21P2
	PNP N.O	BB-Q18C04P-P11P2		BB-Q25T02P-P11P2	BN-Q25T04P-P11P2
	PNP N.C	BB-Q18C04P-P21P2		BB-Q25T02P-P21P2	BN-Q25T04P-P21P2
Size		18*10*30mm		40.5*12*26mm	40.5*12*26mm
Sensing distance		4mm (Flush)		2mm (Flush)	4mm (Non-Flush)
Switching frequency		1000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		ABS			
Sensing face material		ABS			
Connectors		2m PVC Cable, 3*0.25mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

Wide Temperature

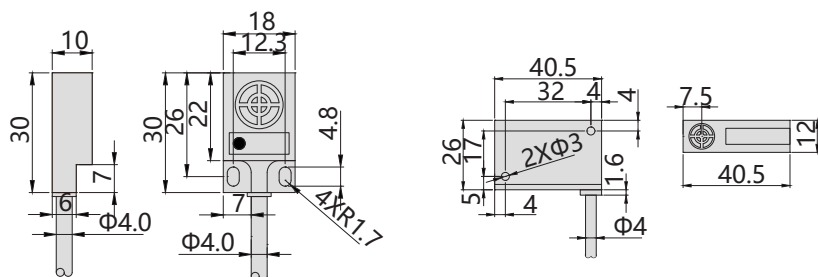
High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q18C Cable ①

Q25T Cable ②



Features:

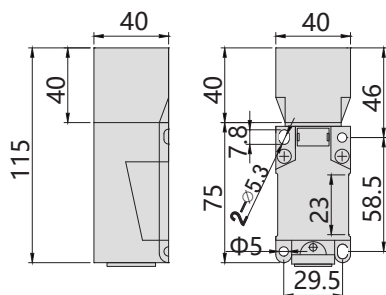
- Plastic housing;
- Wide detection range;
- Suitable for various applications

Technical data

Model No	Appearance							①
	NPN N.O	BB-Q4015N-P11T	BB-Q4020N-P11T	BB-Q4030N-P11T	BN-Q4020N-P11T	BN-Q4030N-P11T	BN-Q4040N-P11T	
	NPN N.C	BB-Q4015N-P21T	BB-Q4020N-P21T	BB-Q4030N-P21T	BN-Q4020N-P21T	BN-Q4030N-P21T	BN-Q4040N-P21T	
	PNP N.O	BB-Q4015P-P11T	BB-Q4020P-P11T	BB-Q4030P-P11T	BN-Q4020P-P11T	BN-Q4030P-P11T	BN-Q4040P-P11T	
	PNP N.C	BB-Q4015P-P21T	BB-Q4020P-P21T	BB-Q4030P-P21T	BN-Q4020P-P21T	BN-Q4030P-P21T	BN-Q4040P-P21T	
Cylindrical	Size	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	
Rectangular	Sensing distance	15mm (Flush)	20mm (Flush)	30mm (Quasi-Flush)	20mm (Non-Flush)	30mm (Non-Flush)	40mm (Non-Flush)	
	Switching frequency	300Hz	300Hz	100Hz	300Hz	300Hz	100Hz	
Namur	Operating voltage	10...30VDC(±10%)						
Metalface	Voltage drop	≤2.0V						
	Load current	200mA						
Teflon	Leakage current	≤0.01mA						
Analog	No-load current	≤10mA(24V)						
	Hysteresis	<15%(Sr)						
Ring probe	Repeatability	<1.0%(Sr)						
	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection						
Wide Temperature	LED indicator	With (Action: LED Indicator Lights Up)						
High Temperature	Ambient temperature	-25...70°C						
	Ingress protection	IP67						
Factor 1	Housing material	PBT						
	Sensing face material	PBT						
	Connectors	Terminal connection, 2.5mm ²						
	Accessories	None						

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X115 Terminal connection ①



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

Appearance							①
Model No	NPN N.O	BB-Q4015N-P11S12	BB-Q4020N-P11S12	BB-Q4030N-P11S12	BN-Q4020N-P11S12	BN-Q4030N-P11S12	BN-Q4040N-P11S12
	NPN N.C	BB-Q4015N-P21S12	BB-Q4020N-P21S12	BB-Q4030N-P21S12	BN-Q4020N-P21S12	BN-Q4030N-P21S12	BN-Q4040N-P21S12
	PNP N.O	BB-Q4015P-P11S12	BB-Q4020P-P11S12	BB-Q4030P-P11S12	BN-Q4020P-P11S12	BN-Q4030P-P11S12	BN-Q4040P-P11S12
	PNP N.C	BB-Q4015P-P21S12	BB-Q4020P-P21S12	BB-Q4030P-P21S12	BN-Q4020P-P21S12	BN-Q4030P-P21S12	BN-Q4040P-P21S12
Size		40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm
Sensing distance		15mm (Flush)	20mm (Flush)	30mm (Quasi-Flush)	20mm (Non-Flush)	30mm (Non-Flush)	40mm (Non-Flush)
Switching frequency		300Hz	300Hz	100Hz	300Hz	300Hz	100Hz
Operating voltage		10...30VDC(±10%)					
Voltage drop		≤2.0V					
Load current		200mA					
Leakage current		≤0.01mA					
No-load current		≤10mA(24V)					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70°C					
Ingress protection		IP67					
Housing material		PBT					
Sensing face material		PBT					
Connectors		Terminal connection, 2.5mm ² /M12 Connector					
Accessories		B12-4GV2/B12-4WV2					

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

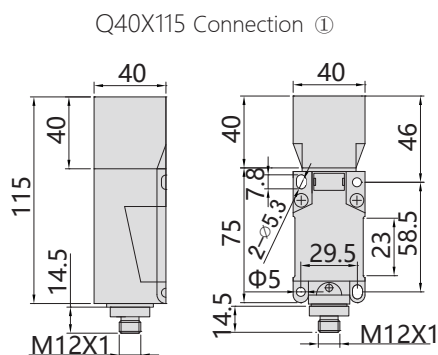
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

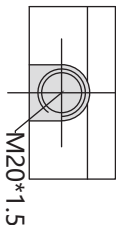
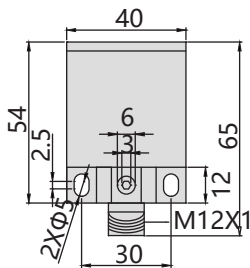
- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

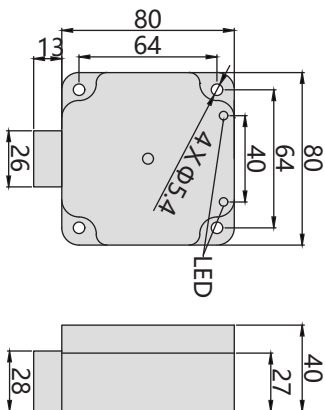
Appearance		 ①		 ②
Model No	NPN N.O	BB-Q4020N-P11S12-S	BN-Q4040N-P11S12-S	BN-Q8050N-P11T
	NPN N.C	BB-Q4020N-P21S12-S	BN-Q4040N-P21S12-S	BN-Q8050N-P21T
	PNP N.O	BB-Q4020P-P11S12-S	BN-Q4040P-P11S12-S	BN-Q8050P-P11T
	PNP N.C	BB-Q4020P-P21S12-S	BN-Q4040P-P21S12-S	BN-Q8050P-P21T
Size		40*40*54mm	40*40*54mm	80*80*40mm
Sensing distance		20mm (Flush)	40mm (Non-Flush)	50mm(Non-Flush)
Switching frequency		300Hz	100Hz	100Hz
Operating voltage		10...30VDC(±10%)		
Voltage drop		≤2.0V		
Load current		200mA		
Leakage current		≤0.01mA		
No-load current		≤10mA(24V)		
Hysteresis		<15%(Sr)		
Repeatability		<1.0%(Sr)		
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection		
LED indicator		With (Action: LED Indicator Lights Up)		
Ambient temperature		-25...70°C		
Ingress protection		IP67		
Housing material		PBT		
Sensing face material		PBT		
Connectors		M12 Connector		Terminal connection, 2.5mm ²
Accessories		B12-4GV2/B12-4WV2		None

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40 Connection ①



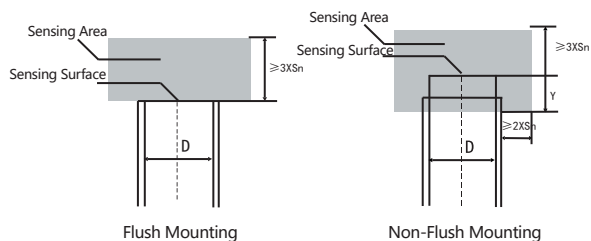
Q80 Terminal connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Mounting

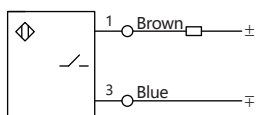


Reduction factor

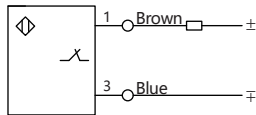
Sensing object material	Factor
Fe360	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

DC 2 NO



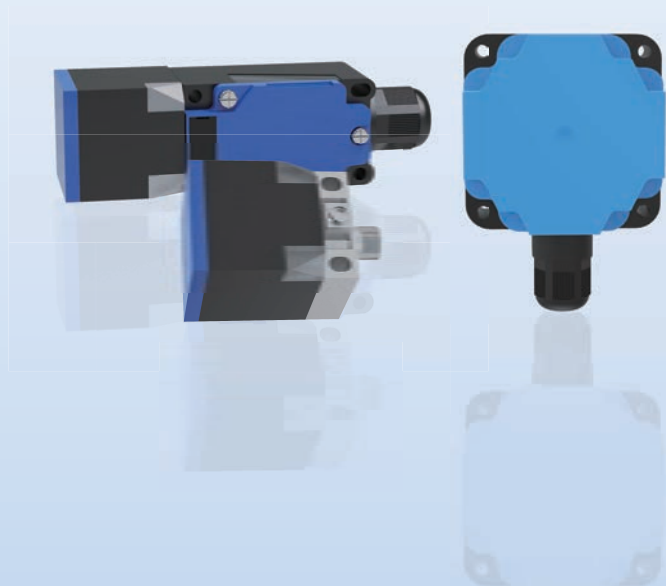
DC 2 NC



PICO M8 Connector



EURO M12 Connector



Q40 Q40S Q80

Inductive proximity sensors

Plastic housing

Rectangular

DC 2 wire

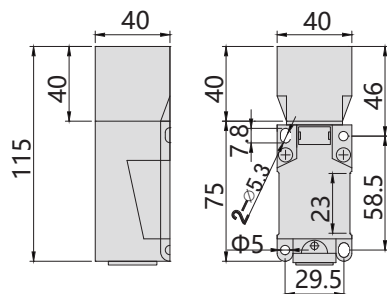
ISO9001 CE UKCA CQC RoHS

Technical data

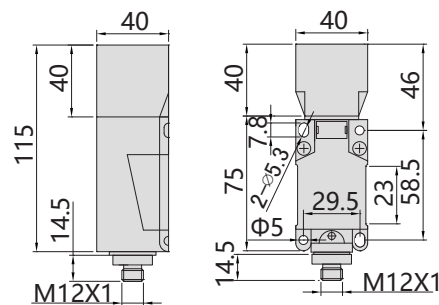
Appearance							
Model No	N.O	BB-Q4015C-P13T	BN-Q4020C-P13T	BN-Q4030C-P13T	BB-Q4015C-P13S12	BN-Q4020C-P13S12	BN-Q4030C-P13S12
	N.C	BB-Q4015C-P23T	BN-Q4020C-P23T	BN-Q4030C-P23T	BB-Q4015C-P23S12	BN-Q4020C-P23S12	BN-Q4030C-P23S12
Size		40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm
Sensing distance		15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)	15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)
Switching frequency		150Hz	100Hz	100Hz	150Hz	100Hz	100Hz
Operating voltage		10...60VDC(±10%)					
Voltage drop		≤4.5V					
Load current		200mA					
Residual signal		≤0.5mA					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70℃					
Ingress protection		IP67					
Housing material		PBT					
Sensing face material		PBT					
Connectors		Terminal connection, 2.5mm ²			M12 Connector		
Accessories		None			B12-4GV2/B12-4WV2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X115 Terminal connection ①



Q40X115 Connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

Appearance					
Model No	N.O	BB-Q4015C-P13S12-S	BN-Q4020C-P13S12-S	BN-Q4030C-P13S12-S	BN-Q8050C-P13T
	N.C	BB-Q4015C-P23S12-S	BN-Q4020C-P23S12-S	BN-Q4030C-P23S12-S	BN-Q8050C-P23T
Size		40*40*54mm	40*40*54mm	40*40*54mm	80*80*40mm
Sensing distance		15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)	50mm(Non-Flush)
Switching frequency		150Hz	100Hz	100Hz	100Hz
Operating voltage		10...60VDC(±10%)			
Voltage drop		≤4.5V			
Load current		200mA			
Residual signal		≤0.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		M12 Connector			Terminal connection, 2.5mm ²
Accessories		B12-4GV2/B12-4WV2			None

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

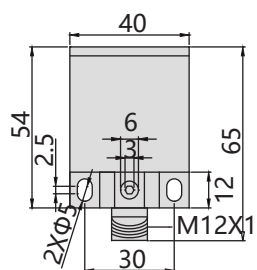
Wide Temperature

High Temperature

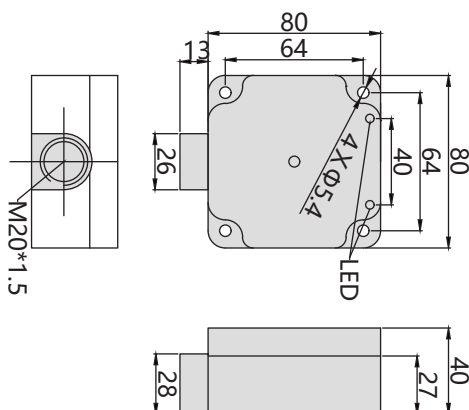
Factor 1

Dimensioned drawing (Dimensional drawing ④ corresponds to technical parameters - appearance column ①)

Q40X54 Connection①



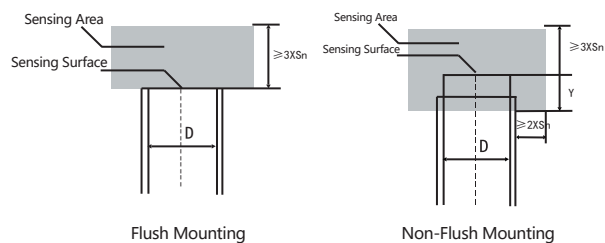
Q80X80 Terminal connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Mounting

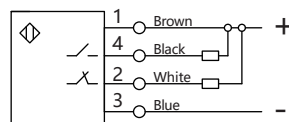


Reduction factor

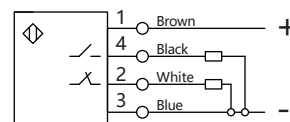
Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

DC NPN NO+NC



DC PNP NO+NC



EURO M12 Connector



Q40 Q40S Q80
Inductive proximity sensors
Plastic housing
Rectangular
DC 4 wire

Technical data

Appearance		①			②		
Model No	NPN N.O+N.C	BB-Q4015N-P31T	BN-Q4020N-P31T	BN-Q4030N-P31T	BB-Q4015N-P31S12	BN-Q4020N-P31S12	BN-Q4030N-P31S12
	PNP N.O+N.C	BB-Q4015P-P31T	BN-Q4020P-P31T	BN-Q4030P-P31T	BB-Q4015P-P31S12	BN-Q4020P-P31S12	BN-Q4030P-P31S12
Size		40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm
Sensing distance		15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)	15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)
Switching frequency		150Hz	100Hz	100Hz	150Hz	100Hz	100Hz
Operating voltage		10...30VDC(±10%)					
Voltage drop		≤2.0V					
Load current		200mA					
No-load current		≤10mA(24V)					
Hysteresis		<15%(Sr)					
Repeatability		<1.0%(Sr)					
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection					
LED indicator		With (Action: LED Indicator Lights Up)					
Ambient temperature		-25...70°C					
Ingress protection		IP67					
Housing material		PBT					
Sensing face material		PBT					
Connectors		Terminal connection, 2.5mm ²			M12 Connector		
Accessories		None			B12-4GV2/B12-4WV2		

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

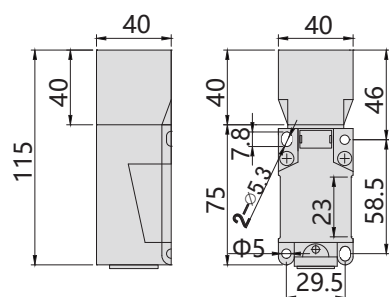
Ring probe

Wide
TemperatureHigh
Temperature

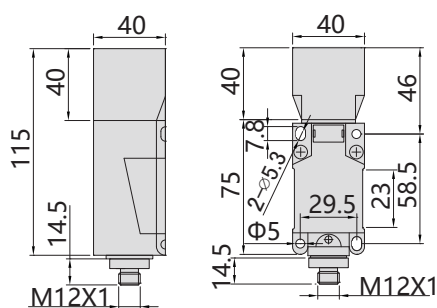
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X115 Terminal connection ①



Q40X115 Connection ②



Features:

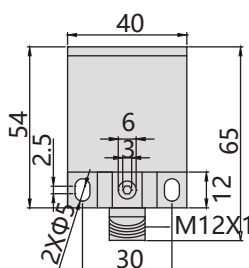
- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

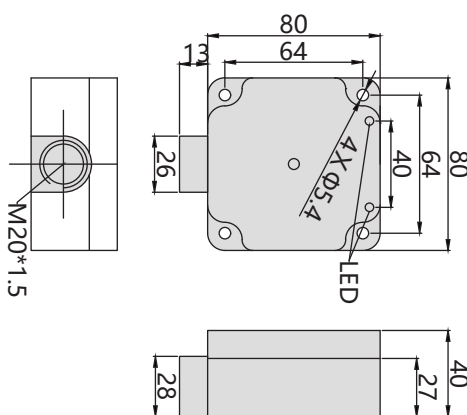
Appearance					
Model No	NPN N.O+N.C	BB-Q4015N-P31S12-S	BN-Q4020N-P31S12-S	BN-Q4030N-P31S12-S	BN-Q8050N-P31T
	PNP N.O+N.C	BB-Q4015P-P31S12-S	BN-Q4020P-P31S12-S	BN-Q4030P-P31S12-S	BN-Q8050P-P31T
Size		40*40*54mm	40*40*54mm	40*40*54mm	80*80*40mm
Sensing distance		15mm (Flush)	20 (Non-Flush)	30mm (Non-Flush)	50mm(Non-Flush)
Switching frequency		150Hz	100Hz	100Hz	100Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		M12 Connector			Terminal connection, 2.5mm ²
Accessories		B12-4GV2/B12-4WV2			None

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X54 Connection ①



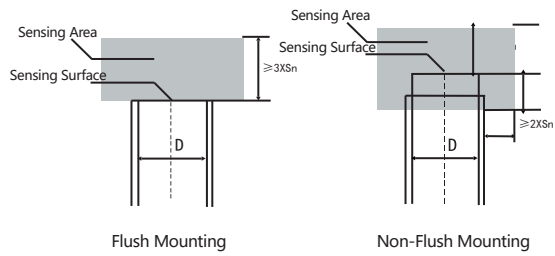
Q80X80 Terminal connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

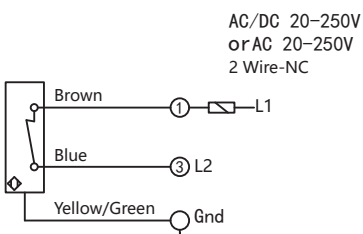
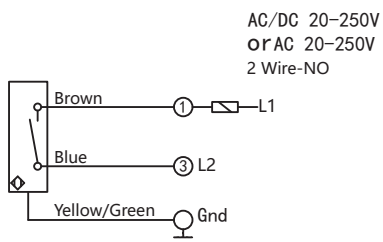
Mounting



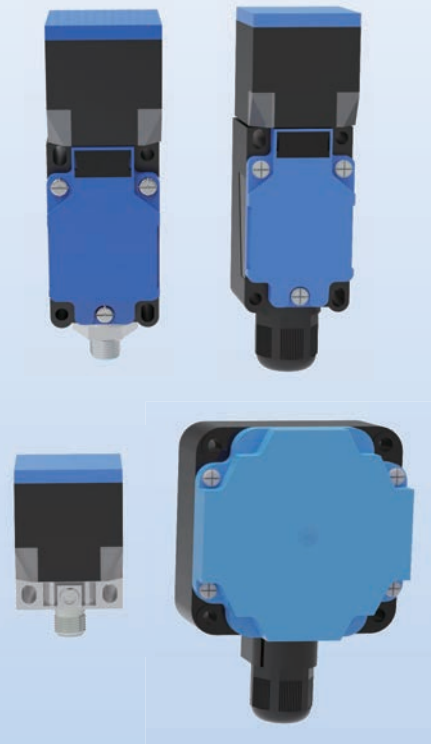
Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

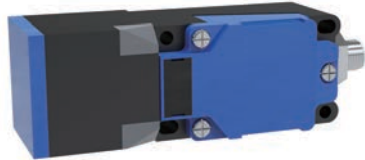


EURO M12 Connector



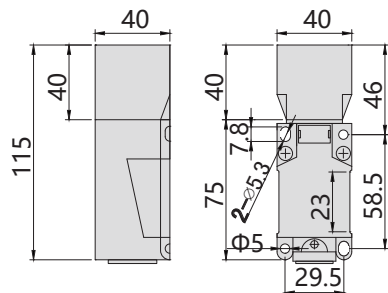
Q40 Q40S Q80
Inductive proximity sensors
Plastic housing
Rectangular
AC 2 wire, AC/DC 2 wire

Technical data

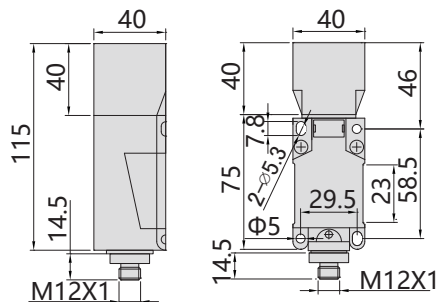
Model No	Appearance	 	
	N.O	BB-Q4015A-P14T	BB-Q4015A-P14S12
	N.C	BB-Q4015A-P24T	BB-Q4015A-P24S12
	N.O	BB-Q4015U-P15T	BB-Q4015U-P15S12
	N.C	BB-Q4015U-P25T	BB-Q4015U-P25S12
Cylindrical	Size	40*40*115mm	
Rectangular	Sensing distance	15mm (Flush)	
Namur	Switching frequency	25Hz/25Hz AC;40Hz DC	
	Operating voltage	20...250V AC/20...250V AC/DC	
Metalface	Voltage drop	≤8V AC/≤10V AC,8V DC	
Teflon	Load current	Max.load:400mA;min.Load:5mA	
		Max.load:200mA;min.Load:5mA	
Analog	Residual signal	≤1.8mA/≤2.5mA	
Ring probe	Hysteresis	<15%(Sr)	
	Repeatability	<1.0%(Sr)	
Wide Temperature	Switch protection	Polarity reversal protection,Power-on protection	
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)	
	Ambient temperature	-25...70°C	
Factor 1	Ingress protection	IP67	
	Housing material	PBT	
	Sensing face material	PBT	
	Connectors	Terminal connection, 2.5mm ²	M12 Connector
	Accessories	None	B12-4GV2/B12-4WV2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X115 Terminal connection ①



Q40X115 Connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

Appearance		①		②	
Model No	N.O	BN-Q4020A-P14T	BN-Q4030A-P14T	BN-Q4020A-P14S12	BN-Q4030A-P14S12
	N.C	BN-Q4020A-P24T	BN-Q4030A-P24T	BN-Q4020A-P24S12	BN-Q4030A-P24S12
	N.O	BN-Q4020U-P15T	BN-Q4030U-P15T	BN-Q4020U-P15S12	BN-Q4030U-P15S12
	N.C	BN-Q4020U-P25T	BN-Q4030U-P25T	BN-Q4020U-P25S12	BN-Q4030U-P25S12
Size		40*40*115mm	40*40*115mm	40*40*115mm	40*40*115mm
Sensing distance		20mm (Non-Flush)	30mm (Non-Flush)	20mm (Non-Flush)	30mm (Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC			
Operating voltage		20...250V AC/20...250V AC/DC			
Voltage drop		≤8V AC/≤10V AC,8V DC			
Load current		Max.load:400mA;min.Load:5mA			
		Max.load:200mA;min.Load:5mA			
Residual signal		≤1.8mA/≤2.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		Terminal connection, 2.5mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

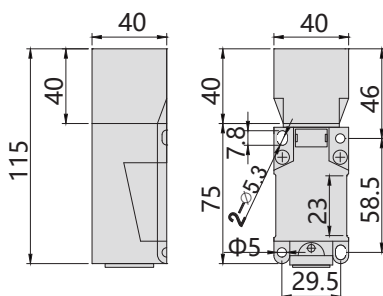
Wide Temperature

High Temperature

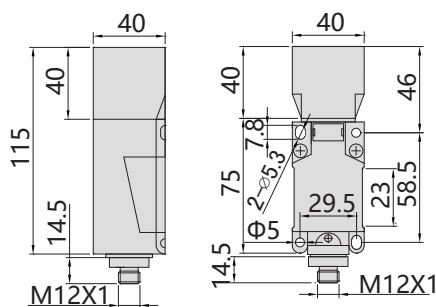
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X115 Terminal connection ①



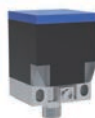
Q40X115 Connection ②



Features:

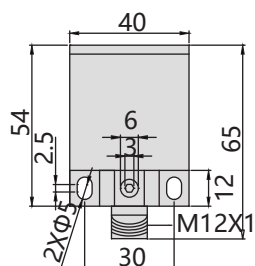
- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Technical data

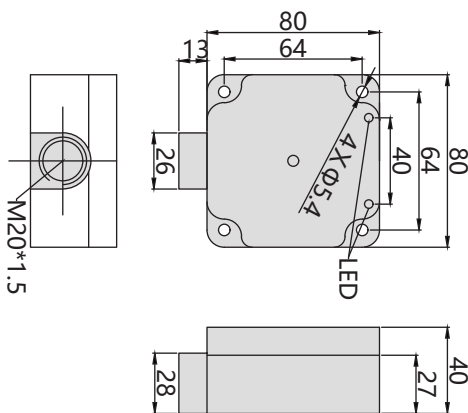
Appearance					
Model No	N.O	BB-Q4015A-P14S12-S	BN-Q4020A-P14S12-S	BN-Q4030A-P14S12-S	BN-Q8050A-P14T
	N.C	BB-Q4015A-P24S12-S	BN-Q4020A-P24S12-S	BN-Q4030A-P24S12-S	BN-Q8050A-P24T
	N.O	BB-Q4015U-P15S12-S	BN-Q4020U-P15S12-S	BN-Q4030U-P15S12-S	BN-Q8050U-P15T
	N.C	BB-Q4015U-P25S12-S	BN-Q4020U-P25S12-S	BN-Q4030U-P25S12-S	BN-Q8050U-P25T
Size		40*40*54mm	40*40*54mm	40*40*54mm	80*80*40mm
Sensing distance		15mm (Flush)	20mm (Non-Flush)	30mm (Non-Flush)	50mm(Non-Flush)
Switching frequency		25Hz/25Hz AC;40Hz DC			
Operating voltage		20...250V AC/20...250V AC/DC			
Voltage drop		≤8V AC/≤10V AC,8V DC			
Load current		Max.load:400mA;min.Load:5mA			
		Max.load:200mA;min.Load:5mA			
Residual signal		≤1.8mA/≤2.5mA			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		PBT			
Sensing face material		PBT			
Connectors		M12 Connector			Terminal connection, 2.5mm ²
Accessories		B12-4GV2/B12-4WV2			None

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q40X54 Connection ①



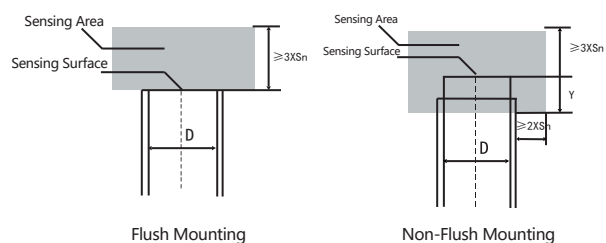
Q80X80 Terminal connection ②



Features:

- Multiple installation methods;
- Wide detection range;
- Can freely change the direction of detection

Mounting

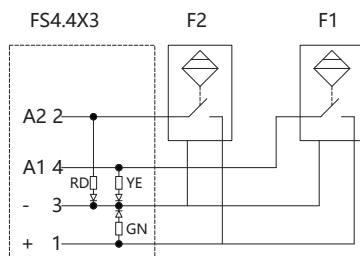


Reduction factor

Target object material	Reduction factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

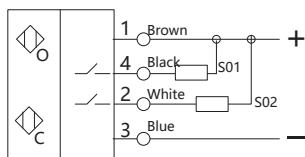
Wiring

BN-Q4502N-P41S12 BN-Q4502P-P41S12

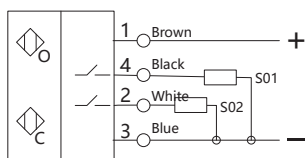


BN-Q4502N-P41X12/Q8 BN-Q4502P-P41X12/Q8
BN-Q4502N-P41X12/Q10 BN-Q4502P-P41X12/Q10

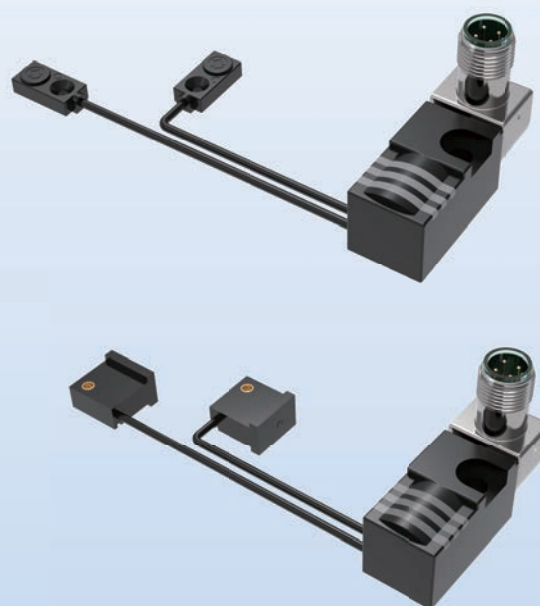
NPN NO+NO



PNP NO+NO



EURO M12 Connector



Q45

Clip-on position sensor

Technical data

①

②

③

Model No	Appearance			
NPN N.O+N.O		BN-Q4502N-P41X12/Q8	BN-Q4502N-P41X12/Q10	BN-Q4502N-P41S12
PNP N.O+N.O		BN-Q4502P-P41X12/Q8	BN-Q4502P-P41X12/Q10	BN-Q4502P-P41S12
Sensing distance		2mm (Non-Flush)		2mm (Non-Flush)
Switching frequency		30Hz		30Hz
Operating voltage		10-30VDC(±10%)		10-30VDC(±10%)
Voltage drop		≤2.0V		≤2.0V
Load current		150mA/24VDC		150mA/24VDC
Leak current		≤0.01mA		≤0.01mA
No-load current		≤20mA(24V)		≤20mA(24V)
Hysteresis		<15%(Sr)		<15%(Sr)
Repeatability		<1.0%(Sr)		<2.0%(Sr)
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection		Short-circuit protection,Polarity reversal protection Power-on protection
LED indicator		Output indicator: S01 yellow; S02 red; Power indicator: green		Yellow/Red: output; Green: power on
Ambient temperature		-25-70°C		-25-70°C
Ingress protection		IP67		IP67
Housing material		Plastic, ABS		Plastic, PBT-GF30-V0
Sensing face material		ABS		PP
Connectors		M12 Connector		M12 Connector
Accessories		B12-4GV2/B12-4WV2		B12-4GV2/B12-4WV2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q45 Plug

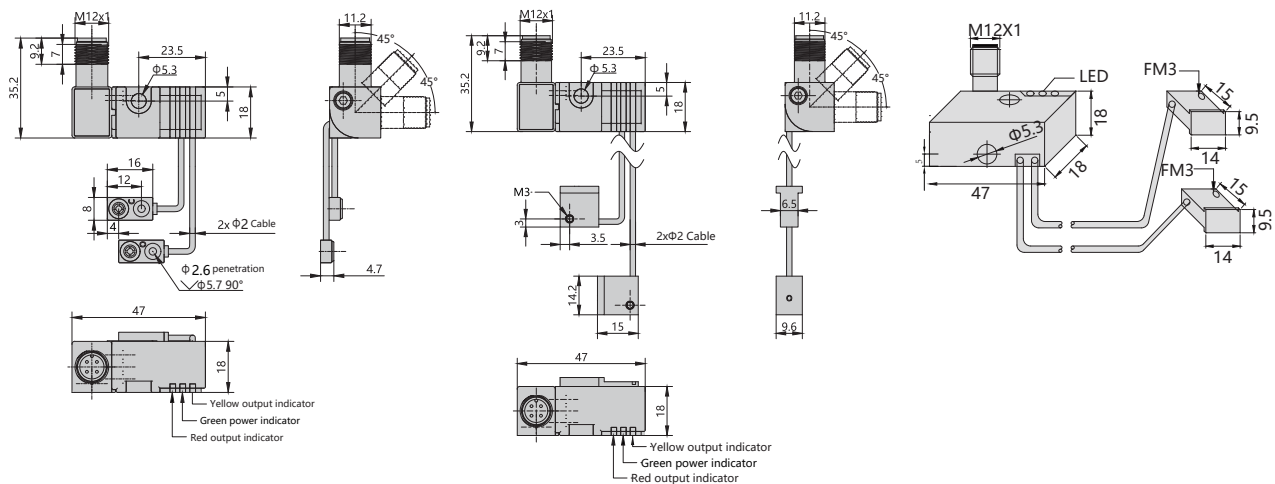
①

Q45 Plug

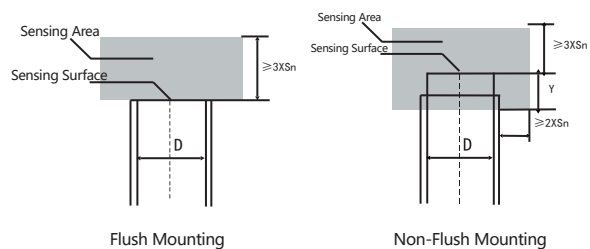
②

Q45 Plug

③



Mounting

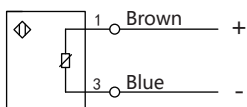


Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

Namur DC 6-12V



EURO M12 Connector



$\Phi 4$ M5 $\Phi 6.5$ M8
 M12 M18 M30 Q28
Inductive proximity sensor
Namur
 DC 2 wire

Technical data

Appearance					
Model No	N.O	BB-H40.8NA-V10P2	BB-M50.8NA-V10P2	BB-H6.501NA-V10P2	BN-H6.502NA-V10P2
Exterior structure		Φ4mm	M5*1mm	Φ6.5mm	Φ6.5mm
Sensing distance		0.8mm (Flush)	0.8mm (Flush)	1mm (Flush)	2mm (Non-Flush)
Switching frequency		2000Hz			1000Hz
Operating voltage		6...12VDC(±10%)			
Load current		> 2.2mA(OFF), < 1.1mA (ON)			
Hysteresis		<15%(Sr)			
Repeatability		<2.0%(Sr)			
Power-on delay		≤10ms			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		None			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PVC Cable, 2*0.18mm ²		2m PVC Cable, 2*0.25mm ²	
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

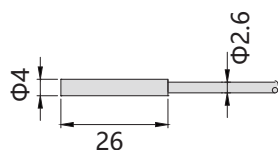
Ring probe

Wide
TemperatureHigh
Temperature

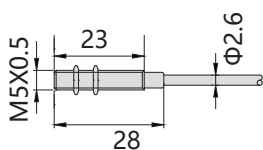
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

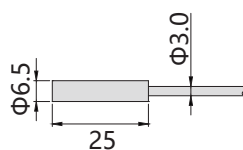
Φ4X26 Cable ①



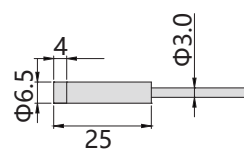
M5X28 Cable ②



Φ6.5X25 Cable ③



Φ6.5X25 Cable ④



Features:

- NAMUR DC 2 wire;
- Switching output

Technical data

Model No	N.O	Appearance	①	②	③	④
			BB-M801NA-V10P2	BN-M802NA-V10P2	BB-M1202NA-C10P2	BN-M1204NA-C10P2
Exterior structure			M8*1mm	M8*1mm	M12*1mm	M12*1mm
Sensing distance			1mm (Flush)	2mm (Non-Flush)	2mm (Flush)	4mm (Non-Flush)
Switching frequency			2000Hz	1000Hz	2000Hz	1000Hz
Operating voltage			6...12VDC(±10%)			
Load current			> 2.2mA(OFF), < 1.1mA (ON)			
Hysteresis			<15%(Sr)			
Repeatability			<2.0%(Sr)			
Power-on delay			≤10ms			
Switch protection			Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator			None			
Ambient temperature			-25...70°C			
Ingress protection			IP67			
Housing material			Stainless steel		Brass,nickel-plated	
Sensing face material			POM		PBT	
Connectors			2m PVC Cable, 2*0.25mm ²		2m PVC Cable, 2*0.5mm ²	
Accessories			None		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

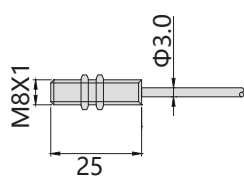
Wide Temperature

High Temperature

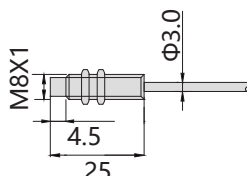
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

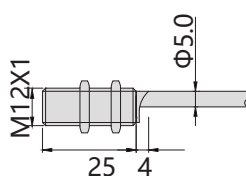
M8X25 Cable ①



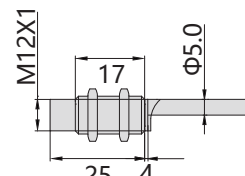
M8X25 Cable ②



M12X25 Cable ③



M12X25 Cable ④



Features:

- NAMUR DC 2 wire;
- Switching output

Technical data

Appearance		 ^①  ^②  ^③  ^④				
		Model No	N.O	BB-M1805NA-C10P2	BN-M1808NA-C10P2	BB-M3010NA-C10P2
Exterior structure		M18*1mm		M18*1mm	M30*1.5mm	M30*1.5mm
Sensing distance		5mm (Flush)		8mm (Non-Flush)	10mm (Flush)	15mm (Non-Flush)
Switching frequency		500Hz		300Hz	300Hz	100Hz
Operating voltage		6...12VDC(±10%)				
Load current		> 2.2mA(OFF), < 1.1mA (ON)				
Hysteresis		<15%(Sr)				
Repeatability		<2.0%(Sr)				
Power-on delay		≤10ms				
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection				
LED indicator		None				
Ambient temperature		-25...70°C				
Ingress protection		IP67				
Housing material		Brass,nickel-plated				
Sensing face material		POM				
Connectors		2m PVC Cable, 2*0.5mm ²				
Accessories		None				

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

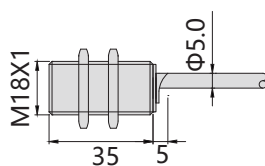
Wide Temperature

High Temperature

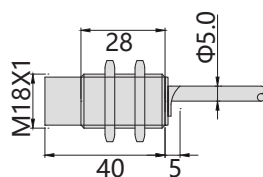
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

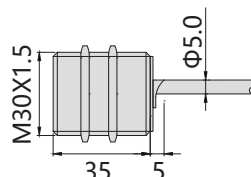
M18X35 Cable ①



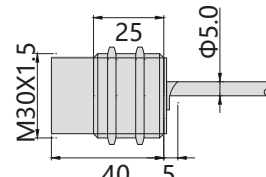
M18X40 Cable ②



M30X35 Cable ③



M30X40 Cable ④



Features:

- NAMUR DC 2 wire;
- Switching output

Technical data

Appearance		①	②
Model No	N.O	BB-Q2802NA-P10P2	BB-Q2802NA-P10P2-T
Size		10.3*15.8*27.8mm	
Sensing distance		2mm(Flush)	
Switching frequency		2000Hz	
Operating voltage		6...12VDC(±10%)	
Load current		> 2.2mA(OFF), < 1.1mA (ON)	
Hysteresis		<15%(Sr)	
Repeatability		< 2.0%(Sr)	
Power-on delay		≤10ms	
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection	
LED indicator		None	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		PBT	
Sensing face material		PBT	
Connectors		2m PVC Cable, 2*0.25mm ²	
Accessories		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

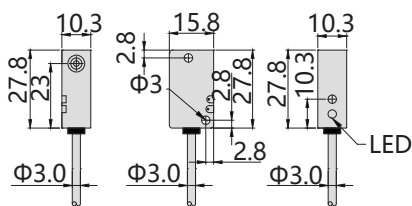
Wide Temperature

High Temperature

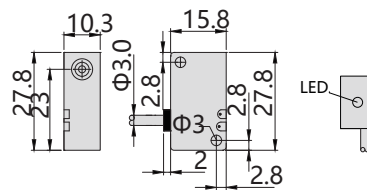
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

Q28 Cable ①



Q28 Side out cable ②



Features:

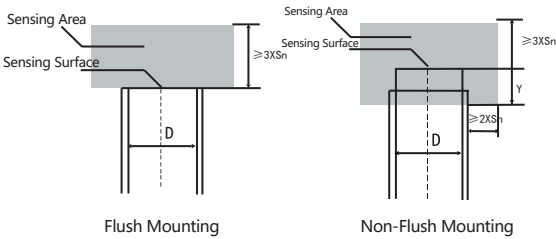
- NAMUR DC 2 wire;
- Switching output



M8 M12 M18 M30
Inductive proximity sensors
Metal face
Cylindrical
DC 3 wire

ISO9001 CE UKCA CQC RoHS

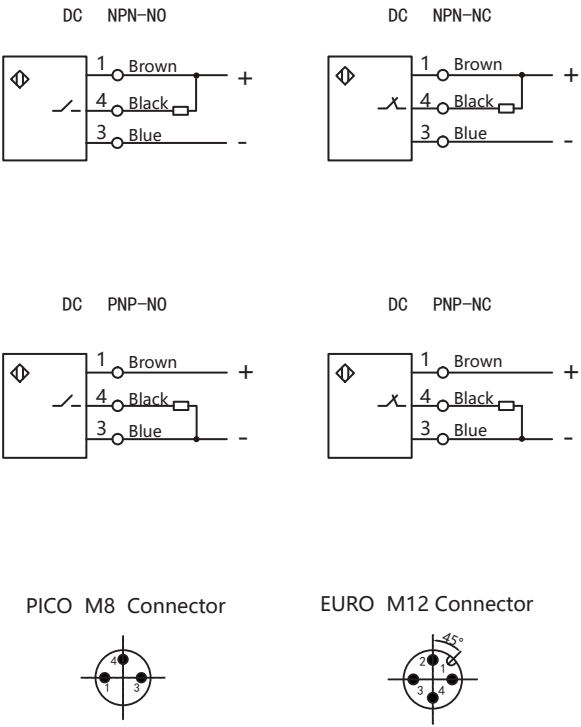
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



Technical data

Appearance		①	②
Model No	NPN N.O	BFB-M802N-V11P2	BFB-M802N-V11P2-S
	NPN N.C	BFB-M802N-V21P2	BFB-M802N-V21P2-S
	PNP N.O	BFB-M802P-V11P2	BFB-M802P-V11P2-S
	PNP N.C	BFB-M802P-V21P2	BFB-M802P-V21P2-S
Exterior structure		M8*1mm	
Sensing distance		2mm (Flush)	
Switching frequency		100Hz	
Operating voltage		10...30VDC(±10%)	
Voltage drop		≤2.0V	
Load current		100mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70°C	
Ingress protection		IP67	
Housing material		Stainless steel	
Sensing face material		Stainless steel	
Connectors		2m PVC Cable, 3*0.18mm ²	
Accessories		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

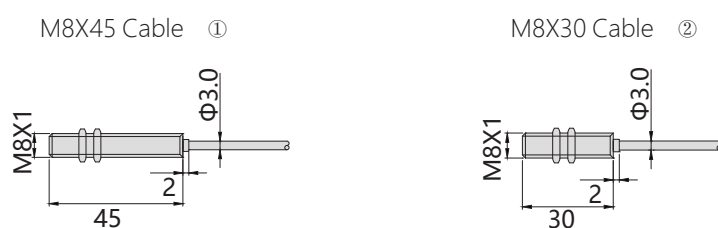
Ring probe

Wide Temperature

High Temperature

Factor 1

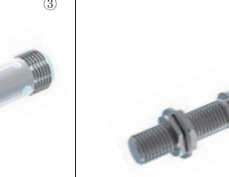
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

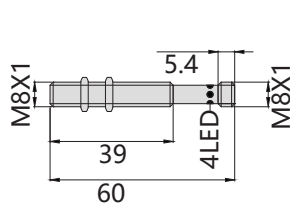
- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

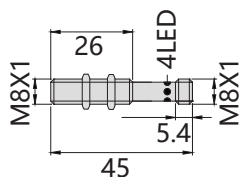
Model No	Appearance				
	   				
	NPN N.O	BFB-M802N-V11S8	BFB-M802N-V11S8-S	BFB-M802N-V11S12	BFB-M802N-V11S12-S
	NPN N.C	BFB-M802N-V21S8	BFB-M802N-V21S8-S	BFB-M802N-V21S12	BFB-M802N-V21S12-S
	PNP N.O	BFB-M802P-V11S8	BFB-M802P-V11S8-S	BFB-M802P-V11S12	BFB-M802P-V11S12-S
	PNP N.C	BFB-M802P-V21S8	BFB-M802P-V21S8-S	BFB-M802P-V21S12	BFB-M802P-V21S12-S
Cylindrical	Exterior structure	M8*1mm			
Rectangular	Sensing distance	2mm (Flush)			
	Switching frequency	100Hz			
Namur	Operating voltage	10...30VDC(±10%)			
Metalface	Voltage drop	≤2.0V			
	Load current	100mA			
Teflon	No-load current	≤10mA(24V)			
Analog	Hysteresis	<15%(Sr)			
	Repeatability	<1.0%(Sr)			
Ring probe	Switch protection	Short-circuit protection,Polarity reversal protection,Power-on protection			
Wide Temperature	LED indicator	With (Action: LED Indicator Lights Up)			
High Temperature	Ambient temperature	-25...70°C			
	Ingress protection	IP67			
Factor 1	Housing material	Stainless steel			
	Sensing face material	Stainless steel			
	Connectors	M8 Connector		M12 Connector	
	Accessories	B8-3GV2/B8-3WV2		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

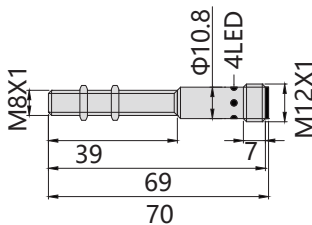
M8X60 Connector ①



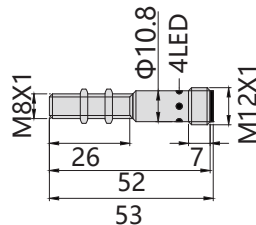
M8X45 Connector ②



M8X70 Connector ③



M8X53 Connector ④



Features:

- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

Appearance		①		②	
Model No	NPN N.O	BFB-M1202N-V11P2	BFB-M1204N-V11P2	BFB-M1202N-V11P2-S	BFB-M1204N-V11P2-S
	NPN N.C	BFB-M1202N-V21P2	BFB-M1204N-V21P2	BFB-M1202N-V21P2-S	BFB-M1204N-V21P2-S
	PNP N.O	BFB-M1202P-V11P2	BFB-M1204P-V11P2	BFB-M1202P-V11P2-S	BFB-M1204P-V11P2-S
	PNP N.C	BFB-M1202P-V21P2	BFB-M1204P-V21P2	BFB-M1202P-V21P2-S	BFB-M1204P-V21P2-S
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		2mm (Flush)	4mm (Flush)	2mm (Flush)	4mm (Flush)
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm ²			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

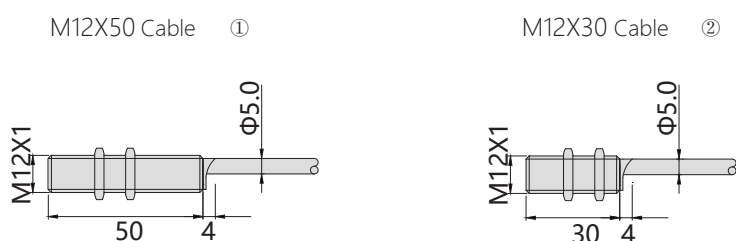
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

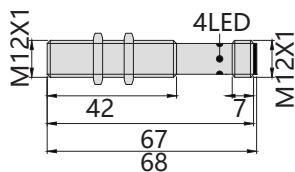
- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

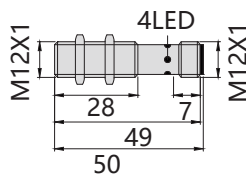
Appearance					
Model No	NPN N.O	BFB-M1202N-V11S12	BFB-M1204N-V11S12	BFB-M1202N-V11S12-S	BFB-M1204N-V11S12-S
	NPN N.C	BFB-M1202N-V21S12	BFB-M1204N-V21S12	BFB-M1202N-V21S12-S	BFB-M1204N-V21S12-S
	PNP N.O	BFB-M1202P-V11S12	BFB-M1204P-V11S12	BFB-M1202P-V11S12-S	BFB-M1204P-V11S12-S
	PNP N.C	BFB-M1202P-V21S12	BFB-M1204P-V21S12	BFB-M1202P-V21S12-S	BFB-M1204P-V21S12-S
Exterior structure		M12*1mm	M12*1mm	M12*1mm	M12*1mm
Sensing distance		2mm (Flush)	4mm (Flush)	2mm (Flush)	4mm (Flush)
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ②)

M12X68 Connector ①



M12X50 Connector ②



Features:

- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BFN-M1204N-V11P2	BFN-M1204N-V11P2-S	BFN-M1204N-V11S12	BFN-M1204N-V11S12-S
	NPN N.C	BFN-M1204N-V21P2	BFN-M1204N-V21P2-S	BFN-M1204N-V21S12	BFN-M1204N-V21S12-S
	PNP N.O	BFN-M1204P-V11P2	BFN-M1204P-V11P2-S	BFN-M1204P-V11S12	BFN-M1204P-V11S12-S
	PNP N.C	BFN-M1204P-V21P2	BFN-M1204P-V21P2-S	BFN-M1204P-V21S12	BFN-M1204P-V21S12-S
Exterior structure		M12*1mm			
Sensing distance		4mm (Non-Flush)			
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

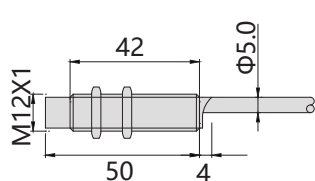
Wide Temperature

High Temperature

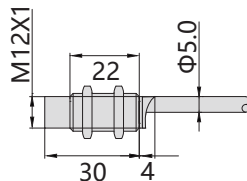
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

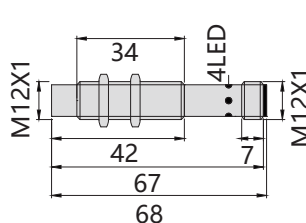
M12X50 Cable ①



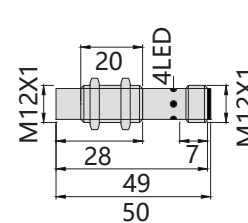
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④



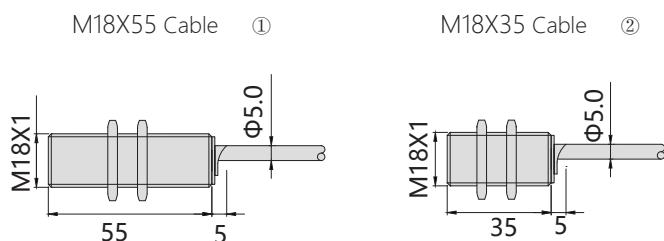
Features:

- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

Appearance		① 		② 	
Model No	NPN N.O	BFB-M1805N-V11P2	BFB-M1808N-V11P2	BFB-M1805N-V11P2-S	BFB-M1808N-V11P2-S
	NPN N.C	BFB-M1805N-V21P2	BFB-M1808N-V21P2	BFB-M1805N-V21P2-S	BFB-M1808N-V21P2-S
	PNP N.O	BFB-M1805P-V11P2	BFB-M1808P-V11P2	BFB-M1805P-V11P2-S	BFB-M1808P-V11P2-S
	PNP N.C	BFB-M1805P-V21P2	BFB-M1808P-V21P2	BFB-M1805P-V21P2-S	BFB-M1808P-V21P2-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		5mm (Flush)	8mm (Flush)	5mm (Flush)	8mm (Flush)
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm ²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

Appearance		①		②	
Model No	NPN N.O	BFB-M1805N-V11S12	BFB-M1808N-V11S12	BFB-M1805N-V11S12-S	BFB-M1808N-V11S12-S
	NPN N.C	BFB-M1805N-V21S12	BFB-M1808N-V21S12	BFB-M1805N-V21S12-S	BFB-M1808N-V21S12-S
	PNP N.O	BFB-M1805P-V11S12	BFB-M1808P-V11S12	BFB-M1805P-V11S12-S	BFB-M1808P-V11S12-S
	PNP N.C	BFB-M1805P-V21S12	BFB-M1808P-V21S12	BFB-M1805P-V21S12-S	BFB-M1808P-V21S12-S
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		5mm (Flush)	8mm (Flush)	5mm (Flush)	8mm (Flush)
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

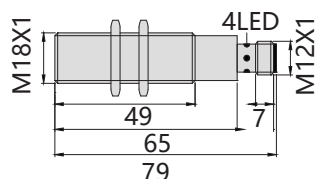
Wide Temperature

High Temperature

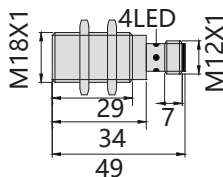
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X79 Connector ①



M18X48 Connector ②



Features:

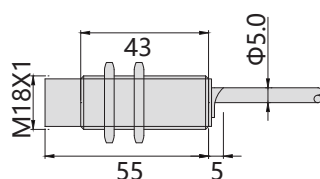
- High protection level;
- Collision proofs;
- Corrosion resistance

Technical data

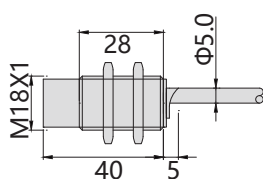
Appearance					
Model No	NPN N.O	BFN-M1808N-V11P2	BFN-M1808N-V11P2-S	BFN-M1808N-V11S12	BFN-M1808N-V11S12-S
	NPN N.C	BFN-M1808N-V21P2	BFN-M1808N-V21P2-S	BFN-M1808N-V21S12	BFN-M1808N-V21S12-S
	PNP N.O	BFN-M1808P-V11P2	BFN-M1808P-V11P2-S	BFN-M1808P-V11S12	BFN-M1808P-V11S12-S
	PNP N.C	BFN-M1808P-V21P2	BFN-M1808P-V21P2-S	BFN-M1808P-V21S12	BFN-M1808P-V21S12-S
Exterior structure		M18*1mm			
Sensing distance		8mm (Non-Flush)			
Switching frequency		100Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

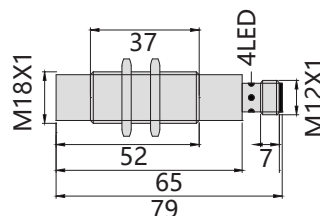
M18X55 Cable ①



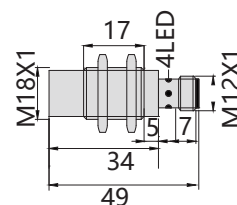
M18X40 Cable ②



M18X79 Connector ③



M18X48 Connector ④



Features:

- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BFB-M3010N-V11P2	BFB-M3010N-V11P2-S	BFB-M3010N-V11S12	BFB-M3010N-V11S12-S
	NPN N.C	BFB-M3010N-V21P2	BFB-M3010N-V21P2-S	BFB-M3010N-V21S12	BFB-M3010N-V21S12-S
	PNP N.O	BFB-M3010P-V11P2	BFB-M3010P-V11P2-S	BFB-M3010P-V11S12	BFB-M3010P-V11S12-S
	PNP N.C	BFB-M3010P-V21P2	BFB-M3010P-V21P2-S	BFB-M3010P-V21S12	BFB-M3010P-V21S12-S
Exterior structure		M30*1.5mm			
Sensing distance		10mm(Flush)			
Switching frequency		2Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

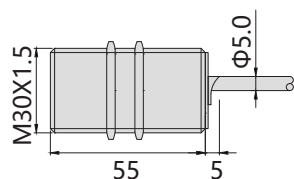
Wide Temperature

High Temperature

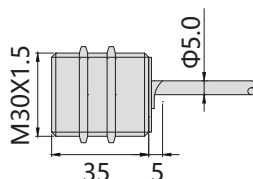
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

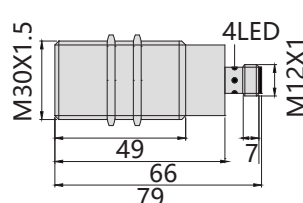
M30X55 Cable ①



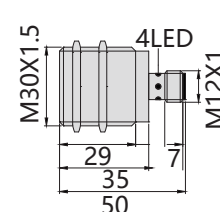
M30X35 Cable ②



M30X79 Connector ③



M30X48 Connector ④



Features:

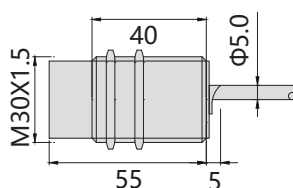
- High protection level;
- Collision proof;
- Corrosion resistance

Technical data

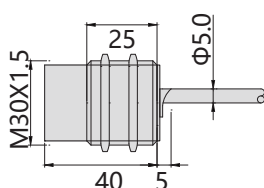
Appearance					
Model No	NPN N.O	BFN-M3015N-V11P2	BFN-M3015N-V11P2-S	BFN-M3015N-V11S12	BFN-M3015N-V11S12-S
	NPN N.C	BFN-M3015N-V21P2	BFN-M3015N-V21P2-S	BFN-M3015N-V21S12	BFN-M3015N-V21S12-S
	PNP N.O	BFN-M3015P-V11P2	BFN-M3015P-V11P2-S	BFN-M3015P-V11S12	BFN-M3015P-V11S12-S
	PNP N.C	BFN-M3015P-V21P2	BFN-M3015P-V21P2-S	BFN-M3015P-V21S12	BFN-M3015P-V21S12-S
Exterior structure		M30*1.5mm			
Sensing distance		15mm (Non-Flush)			
Switching frequency		2Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		Stainless steel			
Connectors		2m PVC Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

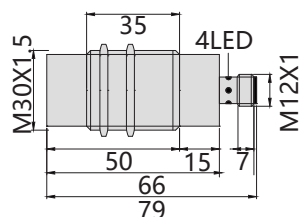
M30X55 Cable ①



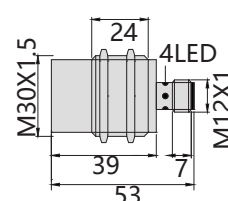
M30X40 Cable ②



M30X79 Connector ③



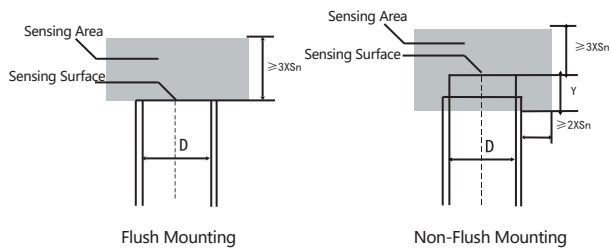
M30X53 Connector ④



Features:

- High protection level;
- Collision proof;
- Corrosion resistance

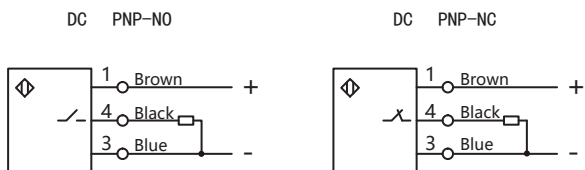
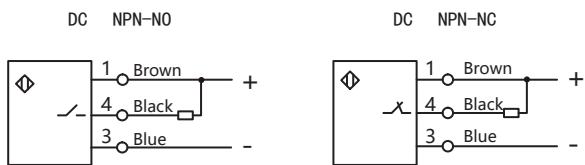
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



PICO M8 Connector



EURO M12 Connector



M8 M12 M18 M30
Inductive proximity sensors
 Brass, Teflon-plated
 DC 3 wire

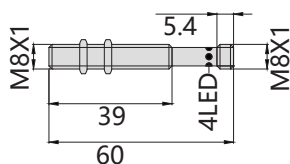
Technical data

Appearance					
Model No	NPN N.O	BB-M802N-C11S8-F	BB-M802N-C11S8-S-F	BB-M802N-C11S12-F	BB-M802N-C11S12-S-F
	NPN N.C	BB-M802N-C21S8-F	BB-M802N-C21S8-S-F	BB-M802N-C21S12-F	BB-M802N-C21S12-S-F
	PNP N.O	BB-M802P-C11S8-F	BB-M802P-C11S8-S-F	BB-M802P-C11S12-F	BB-M802P-C11S12-S-F
	PNP N.C	BB-M802P-C21S8-F	BB-M802P-C21S8-S-F	BB-M802P-C21S12-F	BB-M802P-C21S12-S-F
Exterior structure		M8*1mm			
Sensing distance		2mm (Flush)			
Switching frequency		3000Hz	2000Hz	3000Hz	2000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,Teflon-plated			
Sensing face material		PTFE			
Connectors		M8 Connector		M12 Connector	
Accessories		B8-3GV2/B8-3WV2		B12-4GV2/B12-4WV2	

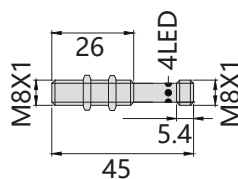
Dimensioned drawing

(Dimensional drawing ① corresponds to technical parameters - appearance column ①)

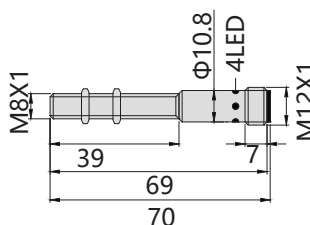
M8X60 Connector ①



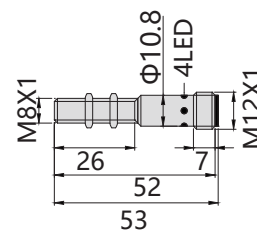
M8X45 Connector ②



M8X70 Connector ③



M8X53 Connector ④



Features:

- Proof to strong magnetic interference;
- High resistance to interference and welding slags splashing

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BN-M804N-C11S8-F	BN-M804N-C11S8-S-F	BN-M804N-C11S12-F	BN-M804N-C11S12-S-F
	NPN N.C	BN-M804N-C21S8-F	BN-M804N-C21S8-S-F	BN-M804N-C21S12-F	BN-M804N-C21S12-S-F
	PNP N.O	BN-M804P-C11S8-F	BN-M804P-C11S8-S-F	BN-M804P-C11S12-F	BN-M804P-C11S12-S-F
	PNP N.C	BN-M804P-C21S8-F	BN-M804P-C21S8-S-F	BN-M804P-C21S12-F	BN-M804P-C21S12-S-F
Exterior structure		M8*1mm			
Sensing distance		4mm (Non-Flush)			
Switching frequency		1000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, Teflon-plated			
Sensing face material		PTFE			
Connectors		M8 Connector		M12 Connector	
Accessories		B8-3GV2/B8-3WV2		B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

Wide Temperature

High Temperature

Factor 1

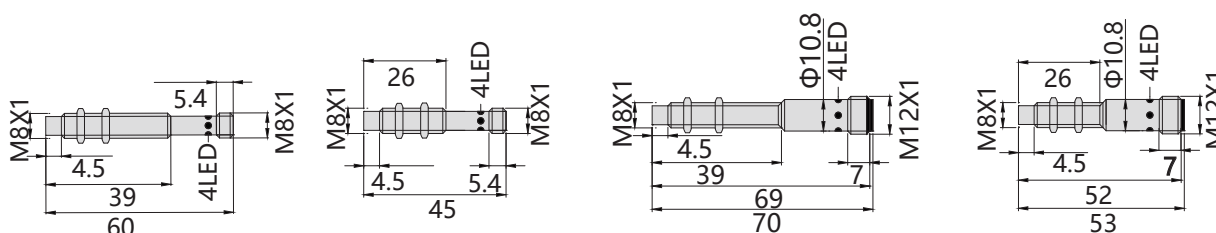
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

M8X60 Connector ①

M8X45 Connector ②

M8X70 Connector ③

M8X53 Connector ④



Features:

- Proof to strong magnetic interference;
- High resistance to interference and welding slags splashing

Technical data

Appearance					
Model No	NPN N.O	BB-M1204N-C11S12-F	BB-M1204N-C11S12-S-F	BN-M1208N-C11S12-F	BN-M1208N-C11S12-S-F
	NPN N.C	BB-M1204N-C21S12-F	BB-M1204N-C21S12-S-F	BN-M1208N-C21S12-F	BN-M1208N-C21S12-S-F
	PNP N.O	BB-M1204P-C11S12-F	BB-M1204P-C11S12-S-F	BN-M1208P-C11S12-F	BN-M1208P-C11S12-S-F
	PNP N.C	BB-M1204P-C21S12-F	BB-M1204P-C21S12-S-F	BN-M1208P-C21S12-F	BN-M1208P-C21S12-S-F
Exterior structure		M12*1mm		M12*1mm	
Sensing distance		4mm (Flush)		8mm (Non-Flush)	
Switching frequency		3000Hz		500Hz	
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,Teflon-plated			
Sensing face material		PTFE			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

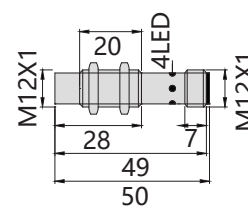
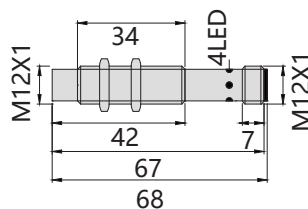
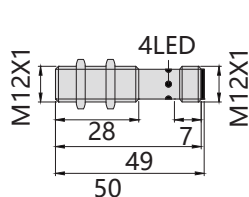
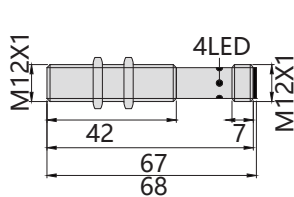
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X68 Connector ①

M12X50 Connector ②

M12X68 Connector ③

M12X50 Connector ④



Features:

- Proof to strong magnetic interference;
- High resistance to interference and welding slags splashing

Technical data

Appearance					
Model No	NPN N.O	BB-M1808N-C11S12-F	BB-M1808N-C11S12-S-F	BN-M1816N-C11S12-F	BN-M1816N-C11S12-S-F
	NPN N.C	BB-M1808N-C21S12-F	BB-M1808N-C21S12-S-F	BN-M1816N-C21S12-F	BN-M1816N-C21S12-S-F
	PNP N.O	BB-M1808P-C11S12-F	BB-M1808P-C11S12-S-F	BN-M1816P-C11S12-F	BN-M1816P-C11S12-S-F
	PNP N.C	BB-M1808P-C21S12-F	BB-M1808P-C21S12-S-F	BN-M1816P-C21S12-F	BN-M1816P-C21S12-S-F
Exterior structure		M18*1mm		M18*1mm	
Sensing distance		8mm (Flush)		16mm (Non-Flush)	
Switching frequency		3000Hz		500Hz	
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,Teflon-plated			
Sensing face material		PTFE			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

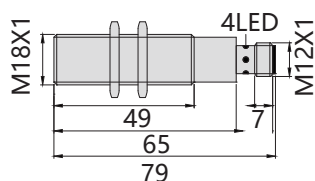
Wide Temperature

High Temperature

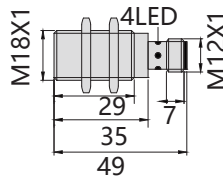
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

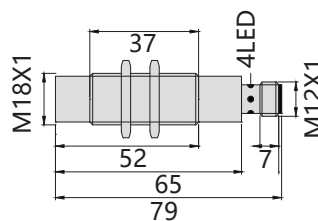
M18X79 Connector ①



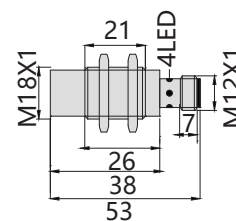
M18X48 Connector ②



M18X79 Connector ③



M18X53 Connector ④



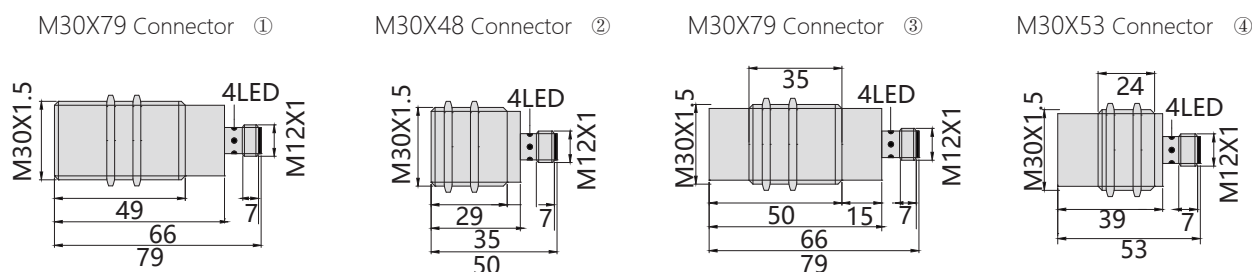
Features:

- Proof to strong magnetic interference;
- High resistance to interference and welding slags splashing

Technical data

Appearance					
Model No	NPN N.O	BB-M3010N-C11S12-F	BB-M3010N-C11S12-S-F	BN-M3015N-C11S12-F	BN-M3015N-C11S12-S-F
	NPN N.C	BB-M3010N-C21S12-F	BB-M3010N-C21S12-S-F	BN-M3015N-C21S12-F	BN-M3015N-C21S12-S-F
	PNP N.O	BB-M3010P-C11S12-F	BB-M3010P-C11S12-S-F	BN-M3015P-C11S12-F	BN-M3015P-C11S12-S-F
	PNP N.C	BB-M3010P-C21S12-F	BB-M3010P-C21S12-S-F	BN-M3015P-C21S12-F	BN-M3015P-C21S12-S-F
Exterior structure		M30*1.5mm		M30*1.5mm	
Sensing distance		10mm (Flush)		15mm (Non-Flush)	
Switching frequency		300Hz		300Hz	
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		Brass,Teflon-plated			
Sensing face material		PTFE			
Connectors		M12 Connector			
Accessories		B12-4GV2/B12-4WV2			

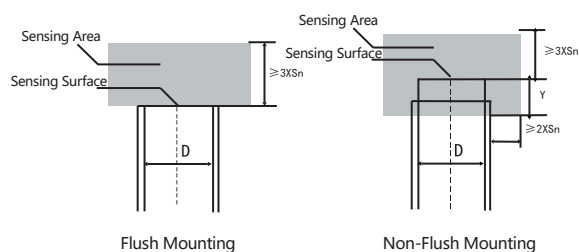
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

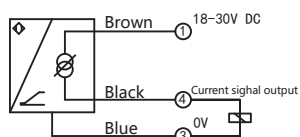
- Proof to strong magnetic interference;
- High resistance to interference and welding slags splashing

Mounting

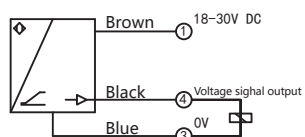


Wiring

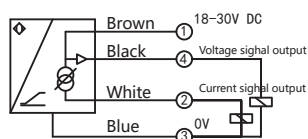
Analog current signal output



Analog voltage signal output



Analog current+voltage signal output



PICO M8 Connector

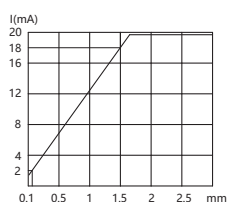


EURO M12 Connector

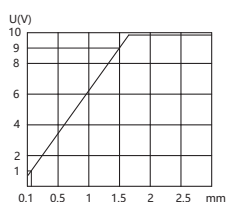


Characteristic curve

M8 Flush

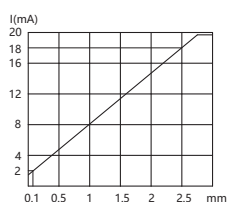


(Current signal)

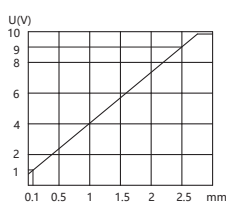


(Voltage signal)

M8 Non-Flush



(Current signal)

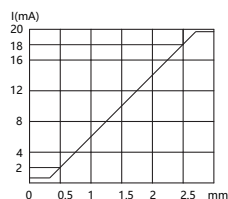


(Voltage signal)

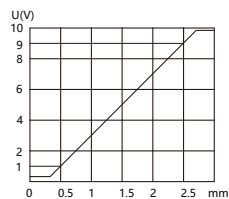
M8 M12 M18 M30 Q40
Inductive proximity sensors
 Brass, nickel-plated
Analog

Characteristic curve

M12Flush

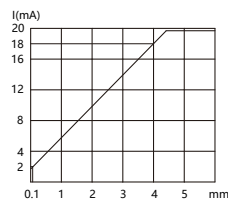


(Current signal)

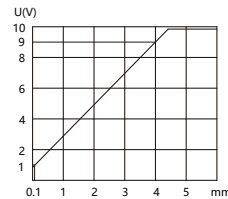


(Voltage signal)

M12Non-Flush

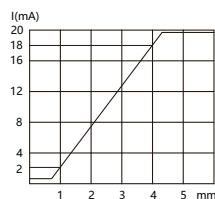


(Current signal)

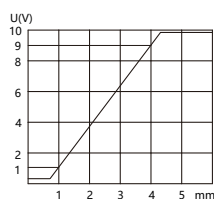


(Voltage signal)

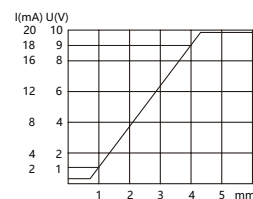
M18Flush



(Current signal)

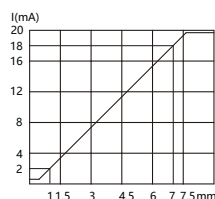


(Voltage signal)

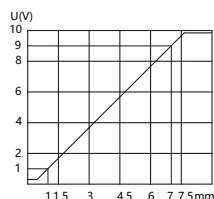


(Current+Voltage signal)

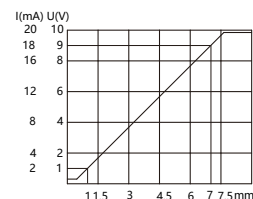
M18Non-Flush



(Current signal)

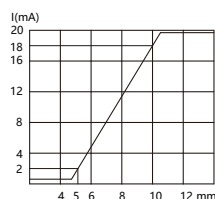


(Voltage signal)

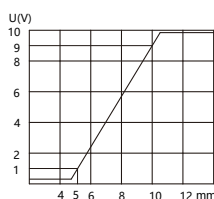


(Current+Voltage signal)

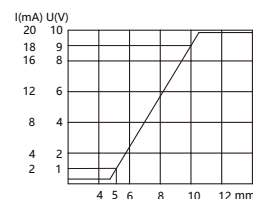
M30Flush



(Current signal)

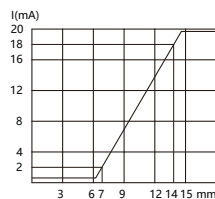


(Voltage signal)

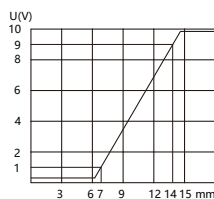


(Current+Voltage signal)

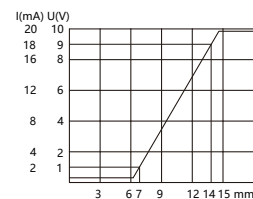
M30Non-Flush



(Current signal)



(Voltage signal)



(Current+Voltage signal)

Technical data

Appearance		①	②	③	④
Model No	0...20mA	BAB-M81.5-CI2P2	BAN-M82.5-CI2P2	BAB-M81.5-CI2S8	BAN-M82.5-CI2S8
	0...10V	BAB-M81.5-CV2P2	BAN-M82.5-CV2P2	BAB-M81.5-CV2S8	BAN-M82.5-CV2S8
Exterior structure		M8*1mm	M8*1mm	M8*1mm	M8*1mm
Sensing distance		0.1...1.5mm (Flush)	0.1...2.5mm (Non-Flush)	0.1...1.5mm (Flush)	0.1...2.5mm (Non-Flush)
Operating voltage		18...30VDC			
Switching frequency		100Hz			
Output		0...20mA; <400Ω/0...10VDC; >2000Ω			
No-load current		<35mA			
Hysteresis		<10%(Sr)			
Repeatability		<2%(Sr)			
Linear accuracy		<5%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		None			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.18mm ²		M8 Connector	
Accessories		None		B8-3GV2/B8-3WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

Wide Temperature

High Temperature

Factor 1

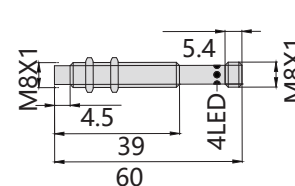
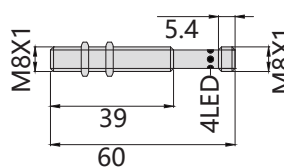
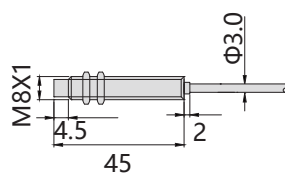
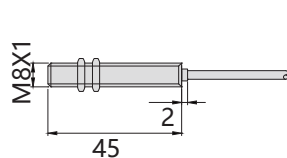
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X45 Cable ①

M8X45 Cable ②

M8X60 Connector ③

M8X60 Connector ④



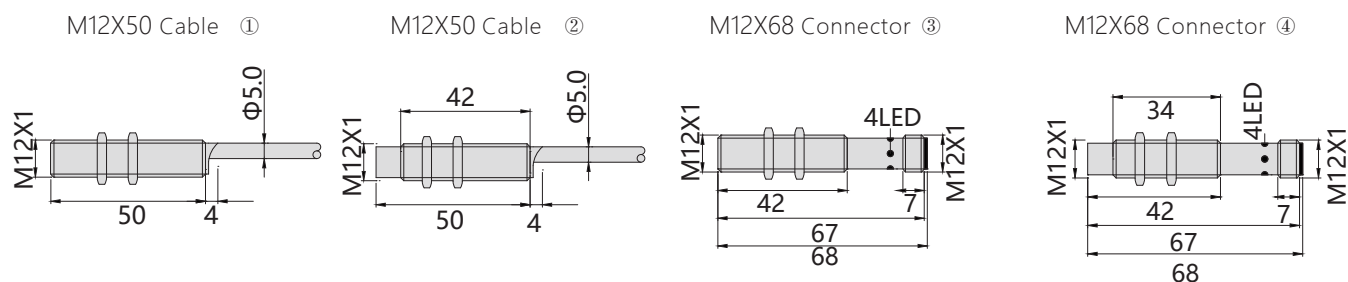
Features:

- Multiple analog output modes;
- Good linearity

Technical data

Model No	Appearance	①	②	③	④
0...20mA	BAB-M1203-CI2P2	BAN-M1204-CI2P2	BAB-M1203-CI2S12	BAN-M1204-CI2S12	
0...10V	BAB-M1203-CV2P2	BAN-M1204-CV2P2	BAB-M1203-CV2S12	BAN-M1204-CV2S12	
Exterior structure	M12*1mm				
Sensing distance	0.1...3.0mm (Flush) 0.1...4.0mm (Non-Flush) 0.1...3.0mm (Flush) 0.1...4.0mm (Non-Flush)				
Operating voltage	18...30VDC				
Switching frequency	100Hz				
Output	0...20mA; <400Ω/0...10VDC; >2000Ω				
No-load current	<35mA				
Hysteresis	<10%(Sr)				
Repeatability	<2%(Sr)				
Linear accuracy	<5%(Sr)				
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection				
LED indicator	Not				
Ambient temperature	-25...70°C				
Ingress protection	IP67				
Housing material	Brass, nickel-plated				
Sensing face material	PBT				
Connectors	2m PVC Cable, 3*0.35mm ²		M12 Connector		
Accessories	None		B12-4GV2/B12-4WV2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

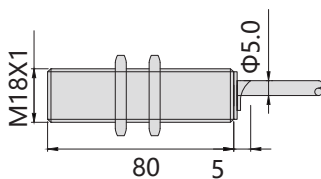
- Multiple analog output modes;
- Good linearity

Technical data

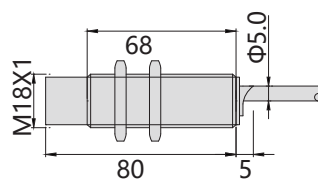
Model No	Appearance	①	②	③	④
		BAB-M1804-CI2P2	BAN-M1807-CI2P2	BAB-M1804-CI2S12	BAN-M1807-CI2S12
		BAB-M1804-CV2P2	BAN-M1807-CV2P2	BAB-M1804-CV2S12	BAN-M1807-CV2S12
		BAB-M1804-CM2P2	BAN-M1807-CM2P2	BAB-M1804-CM2S12	BAN-M1807-CM2S12
Exterior structure		M18*1mm	M18*1mm	M18*1mm	M18*1mm
Sensing distance		1.0...4.0mm (Flush)	1.0...7.0mm (Non-Flush)	1.0...4.0mm (Flush)	1.0...7.0mm (Non-Flush)
Operating voltage		18...30VDC			
Switching frequency		100Hz			
Output		0...20mA; <400Ω/0...10VDC; >2000Ω			
		0...10VDC; >4700Ω+0...20mA; <400Ω			
No-load current		<35mA			
Hysteresis		<10%(Sr)			
Repeatability		<2%(Sr)			
Linear accuracy		<5%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		None			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		POM			
Connectors		2m PVC Cable, 3*0.35mm ² /4*0.25mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

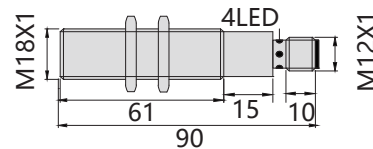
M18X80 Cable ①



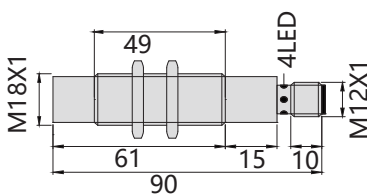
M18X80 Cable ②



M18X90 Connector ③



M18X90 Connector ④



Features:

- Multiple analog output modes;
- Good linearity

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

Wide Temperature

High Temperature

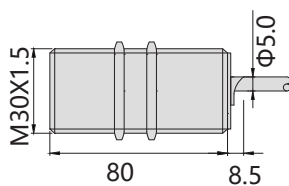
Factor 1

Technical data

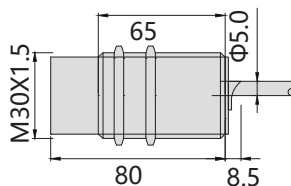
Model No	Appearance	①	②	③	④
					
		BAB-M3010-CI2P2	BAN-M3014-CI2P2	BAB-M3010-CI2S12	BAN-M3014-CI2S12
		BAB-M3010-CV2P2	BAN-M3014-CV2P2	BAB-M3010-CV2S12	BAN-M3014-CV2S12
Model No	Appearance	BAB-M3010-CM2P2	BAN-M3014-CM2P2	BAB-M3010-CM2S12	BAN-M3014-CM2S12
		BAB-M3010-CM2P2	BAN-M3014-CM2P2	BAB-M3010-CM2S12	BAN-M3014-CM2S12
Exterior structure		M30*1.5mm	M30*1.5mm	M30*1.5mm	M30*1.5mm
Sensing distance		5.0...10mm (Flush)	7.0...14mm (Non-Flush)	5.0...10mm (Flush)	7.0...14mm (Non-Flush)
Operating voltage		18...30V DC			
Switching frequency		100Hz			
Output		0...20mA; <400Ω/0...10VDC; >2000Ω			
		0...10VDC, >4700Ω+0...20mA; <400Ω			
No-load current		<35mA			
Hysteresis		<10%(Sr)			
Repeatability		<2%(Sr)			
Linear accuracy		<5%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		None			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		Brass, nickel-plated			
Sensing face material		PBT			
Connectors		2m PVC Cable, 3*0.35mm ² /4*0.25mm ²		M12 Connector	
Accessories		None		B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

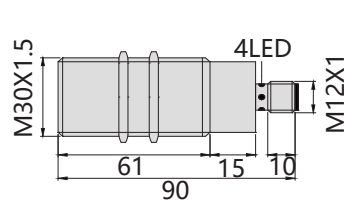
M30X80 Cable ①



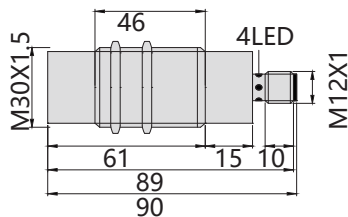
M30X80 Cable ②



M30X90 Connector ③



M30X90 Connector ④



Features:

- Multiple analog output modes;
- Good linearity

Technical data

Appearance		
Model No	0...20mA / 0...10V	BAN-Q4025-PM2S12-S
Size	40*40*54mm	
Sensing distance	5...25mm (Non-Flush)	
Operating voltage	18...30V DC	
Switching frequency	30Hz	
Output	0...20mA, ≤0.4kΩ / 0...10VDC, ≥4.7kΩ	
No-load current	≤8mA	
Hysteresis	<10%(Sr)	
Repeatability	<2%(Sr)	
Linear accuracy	≤5%(Sr)	
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection	
Ambient temperature	-25...70°C	
Ingress protection	IP67	
Housing material	PBT	
Sensing face material	PBT	
Connectors	M12 Connector	
Accessories	B12-4GV2/B12-4WV2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

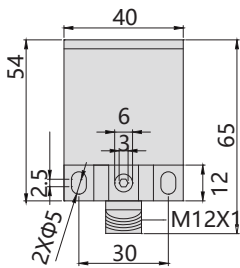
Wide Temperature

High Temperature

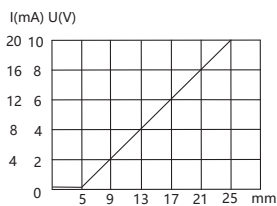
Factor 1

Dimensioned drawing

Q40X54 Connector ①

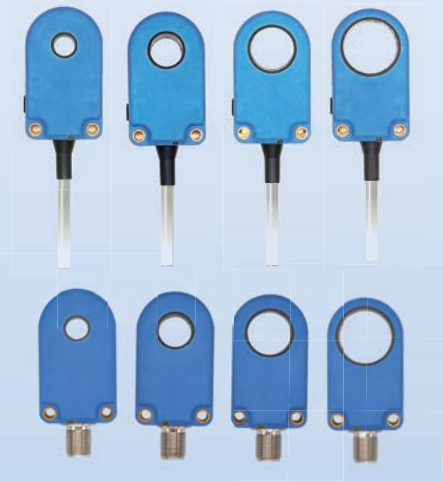


Characteristic curve



Features:

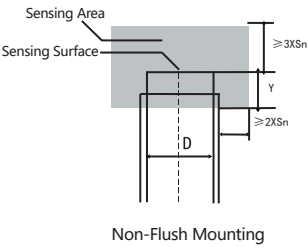
- Multiple analog output modes;
- Good linearity



Inductive proximity sensors
Plastic housing
Ring probe
DC 3 wire

ISO9001 CE UKCA CQC RoHS

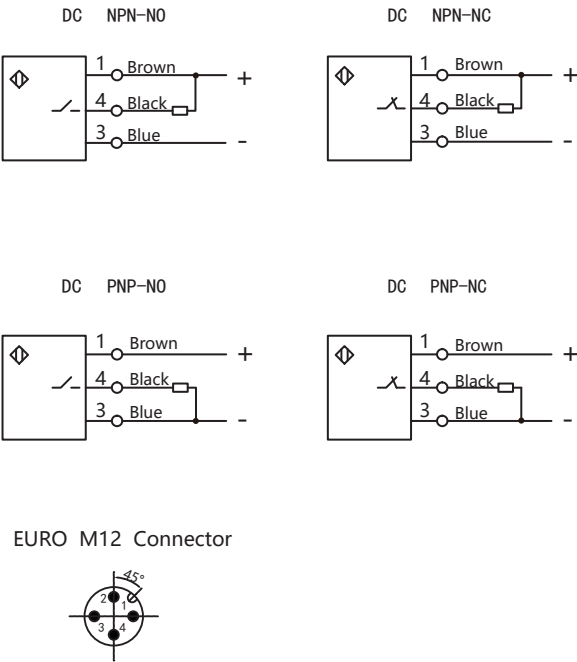
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



Technical data

Appearance		①	②	③	④	⑤
Model No	NPN N.O	BN-R6N-P11P2	BN-R10N-P11P2	BN-R12N-P11P2	BN-R15N-P11P2	BN-R30N-P11P2
	NPN N.C	BN-R6N-P21P2	BN-R10N-P21P2	BN-R12N-P21P2	BN-R15N-P21P2	BN-R30N-P21P2
	PNP N.O	BN-R6P-P11P2	BN-R10P-P11P2	BN-R12P-P11P2	BN-R15P-P11P2	BN-R30P-P11P2
	PNP N.C	BN-R6P-P21P2	BN-R10P-P21P2	BN-R12P-P21P2	BN-R15P-P21P2	BN-R30P-P21P2
Detection aperture		6mm	10mm	12mm	15mm	30mm
Switching frequency		1000Hz				
Operating voltage		10...30VDC (±10%)				
Voltage drop		≤3.0V				
Load current		200mA				
Leakage current		≤0.01mA				
No-load current		≤20mA(24V)				
Hysteresis		<15%(Sr)				
Repeatability		<1.0%(Sr)				
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection				
LED indicator		With (Green power indicator, yellow action indicator)				
Ambient temperature		-25...70°C				
Ingress protection		IP67				
Housing material		PBT				
Sensing face material		ABS				
Connectors		2m PVC Cable, 3*0.35mm ²				
Accessories		None				

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

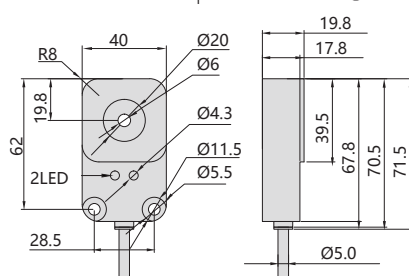
Wide Temperature

High Temperature

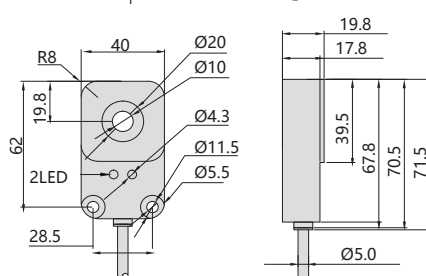
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ③)

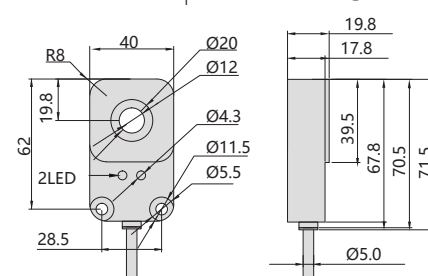
Detection aperture 6mm ①



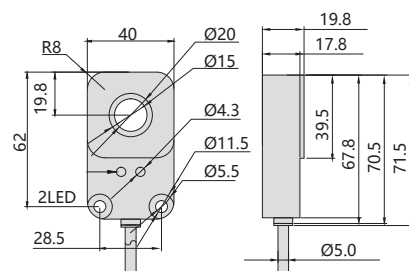
Detection aperture 10mm ②



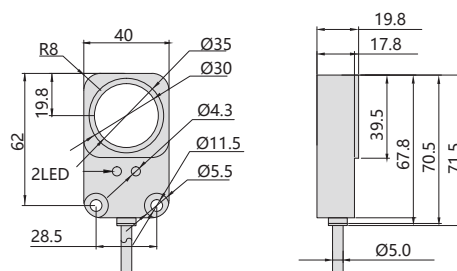
Detection aperture 12mm ③



Detection aperture 15mm ④



Detection aperture 30mm ⑤



Features:

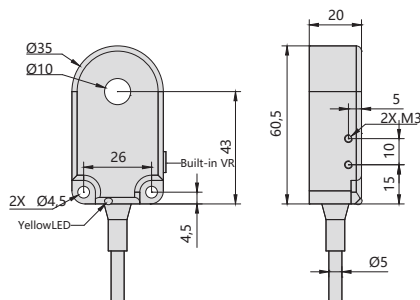
- High response frequency;
- High protection level

Technical data

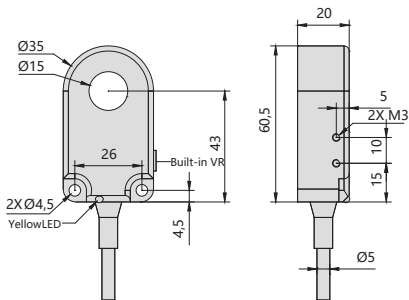
Appearance					
Model No	NPN N.O	BN-R1020N-P11P2	BN-R1520N-P11P2	BN-R2020N-P11P2	BN-R2520N-P11P2
	NPN N.C	BN-R1020N-P21P2	BN-R1520N-P21P2	BN-R2020N-P21P2	BN-R2520N-P21P2
	PNP N.O	BN-R1020P-P11P2	BN-R1520P-P11P2	BN-R2020P-P11P2	BN-R2520P-P11P2
	PNP N.C	BN-R1020P-P21P2	BN-R1520P-P21P2	BN-R2020P-P21P2	BN-R2520P-P21P2
Detection aperture		10mm	15mm	20mm	25mm
Switching frequency		1000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤3.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤20mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70℃			
Ingress protection		IP67			
Housing material		POM			
Sensing face material		ABS			
Connectors		2m PVC Cable, 3*0.35mm ²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

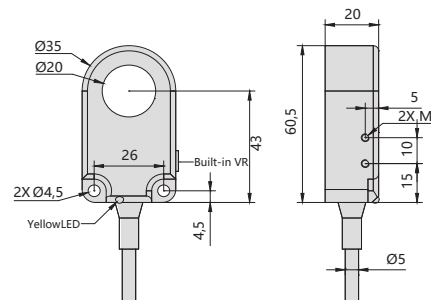
Detection aperture 10mm ①



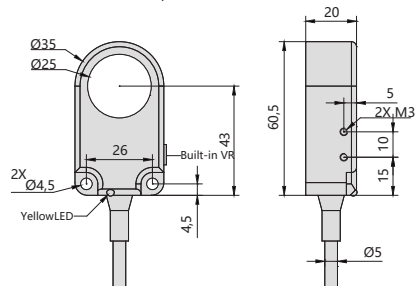
Detection aperture 15mm ②



Detection aperture 20mm ③



Detection aperture 25mm ④



Features:

- High response frequency;
- High protection level

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BN-R1020N-P11S12	BN-R1520N-P11S12	BN-R2020N-P11S12	BN-R2520N-P11S12
	NPN N.C	BN-R1020N-P21S12	BN-R1520N-P21S12	BN-R2020N-P21S12	BN-R2520N-P21S12
	PNP N.O	BN-R1020P-P11S12	BN-R1520P-P11S12	BN-R2020P-P11S12	BN-R2520P-P11S12
	PNP N.C	BN-R1020P-P21S12	BN-R1520P-P21S12	BN-R2020P-P21S12	BN-R2520P-P21S12
Detection aperture		10mm	15mm	20mm	25mm
Switching frequency		1000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤3.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤20mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		POM			
Sensing face material		ABS			
Connectors		M12 Connector			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

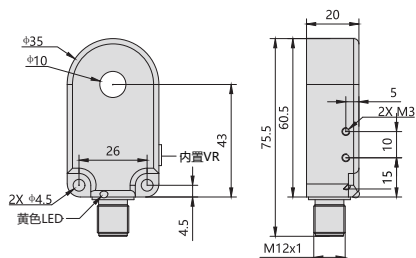
Wide Temperature

High Temperature

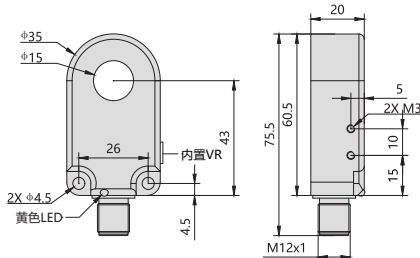
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

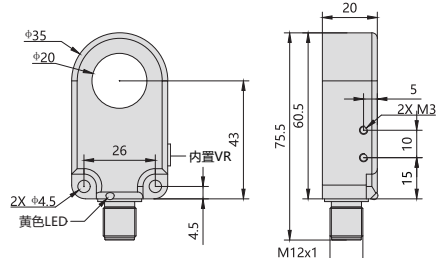
Detection aperture 10mm ①



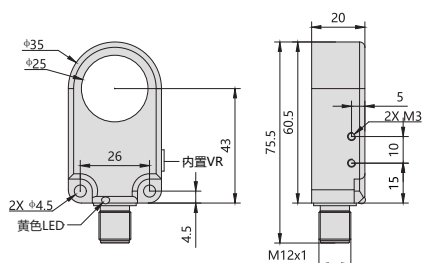
Detection aperture 15mm ②



Detection aperture 20mm ③



Detection aperture 25mm ④



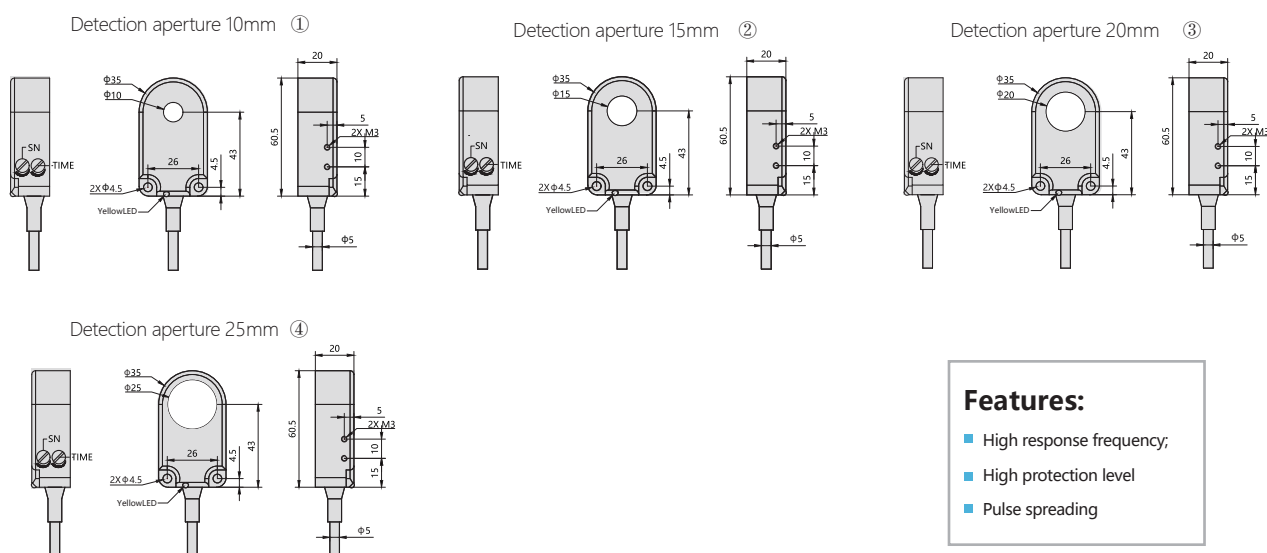
Features:

- High response frequency;
- High protection level

Technical data

Model No	Appearance	①	②	③	④
	NPN N.O	BN-R1020N-P11P2-D	BN-R1520N-P11P2-D	BN-R2020N-P11P2-D	BN-R2520N-P11P2-D
	NPN N.C	BN-R1020N-P21P2-D	BN-R1520N-P21P2-D	BN-R2020N-P21P2-D	BN-R2520N-P21P2-D
	PNP N.O	BN-R1020P-P11P2-D	BN-R1520P-P11P2-D	BN-R2020P-P11P2-D	BN-R2520P-P11P2-D
	PNP N.C	BN-R1020P-P21P2-D	BN-R1520P-P21P2-D	BN-R2020P-P21P2-D	BN-R2520P-P21P2-D
Detection aperture		10mm	15mm	20mm	25mm
Switching frequency		1000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤3.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤20mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Pulse spreading		10...500ms, adjustable			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		POM			
Sensing face material		ABS			
Connectors		2m PVC Cable, 3*0.35mm ²			
Accessories		None			

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BN-R1020N-P11S12-D	BN-R1520N-P11S12-D	BN-R2020N-P11S12-D	BN-R2520N-P11S12-D
	NPN N.C	BN-R1020N-P21S12-D	BN-R1520N-P21S12-D	BN-R2020N-P21S12-D	BN-R2520N-P21S12-D
	PNP N.O	BN-R1020P-P11S12-D	BN-R1520P-P11S12-D	BN-R2020P-P11S12-D	BN-R2520P-P11S12-D
	PNP N.C	BN-R1020P-P21S12-D	BN-R1520P-P21S12-D	BN-R2020P-P21S12-D	BN-R2520P-P21S12-D
Detection aperture		10mm	15mm	20mm	25mm
Switching frequency		1000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤3.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤20mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Pulse spreading		10...500ms, adjustable			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-25...70°C			
Ingress protection		IP67			
Housing material		POM			
Sensing face material		ABS			
Connectors		M12 Connector			
Accessories		None			

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

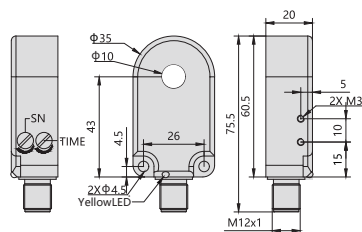
Wide Temperature

High Temperature

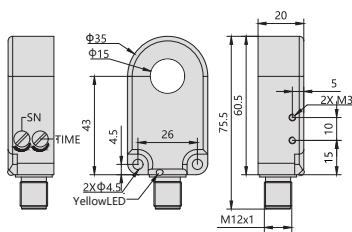
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

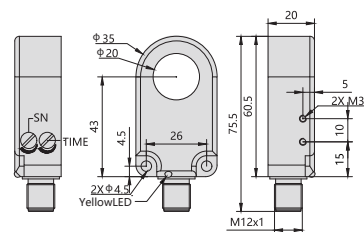
Detection aperture 10mm ①



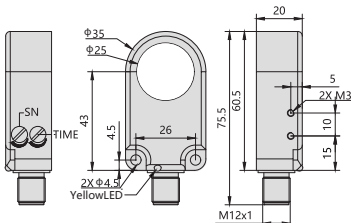
Detection aperture 15mm ②



Detection aperture 20mm ③



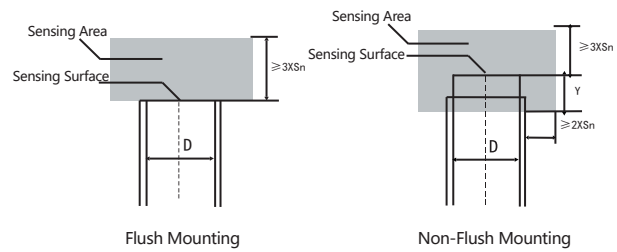
Detection aperture 25mm ④



Features:

- High response frequency;
- High protection level
- Pulse spreading

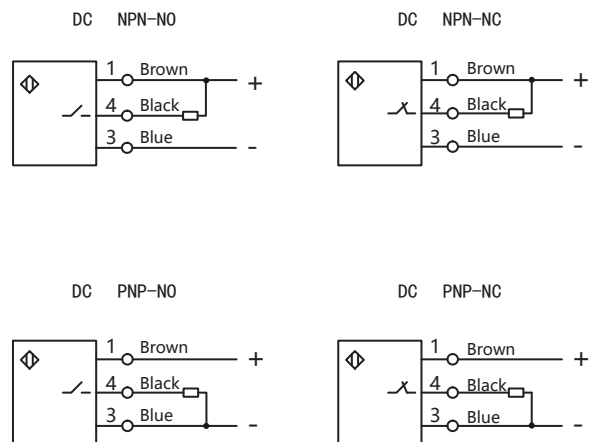
Mounting



Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring



PICO M8 Connector



EURO M12 Connector



M8 M12 M18 M30

Inductive proximity sensors

Stainless steel/Brass,nickel-plated

Wide temperature

DC 3 wire

Technical data

Appearance			
Model No	NPN N.O	BLB-M802N-V11U2	BLB-M802N-V11U2-S
	NPN N.C	BLB-M802N-V21U2	BLB-M802N-V21U2-S
	PNP N.O	BLB-M802P-V11U2	BLB-M802P-V11U2-S
	PNP N.C	BLB-M802P-V21U2	BLB-M802P-V21U2-S
Exterior structure		M8*1mm	
Sensing Distance		2mm (Flush)	
Switching frequency		3000Hz	2000Hz
Operating voltage		10...30VDC(±10%)	
Voltage drop		≤2.0V	
Load current		100mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-40...85℃	
Ingress protection		IP67	
Housing material		Stainless steel	
Sensing face material		POM	
Connectors		2m PUR Cable, 3*0.18mm²	
Accessories		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

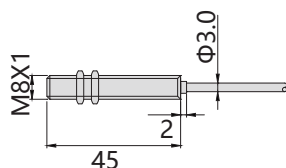
Wide Temperature

High Temperature

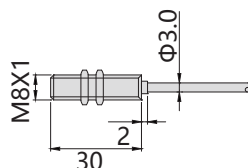
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X45 Cable ①



M8X30 Cable ②



Features:

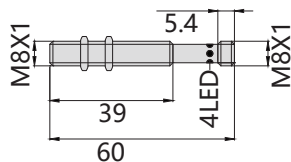
- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

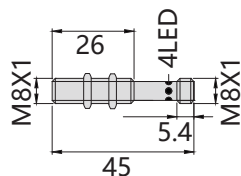
Appearance					
Model No	NPN N.O	BLB-M802N-V11S8	BLB-M802N-V11S8-S	BLB-M802N-C11S12	BLB-M802N-C11S12-S
	NPN N.C	BLB-M802N-V21S8	BLB-M802N-V21S8-S	BLB-M802N-C21S12	BLB-M802N-C21S12-S
	PNP N.O	BLB-M802P-V11S8	BLB-M802P-V11S8-S	BLB-M802P-C11S12	BLB-M802P-C11S12-S
	PNP N.C	BLB-M802P-V21S8	BLB-M802P-V21S8-S	BLB-M802P-C21S12	BLB-M802P-C21S12-S
Exterior structure		M8*1mm			
Sensing Distance		2mm (Flush)			
Switching frequency		3000Hz	2000Hz	3000Hz	2000Hz
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-40...85℃			
Ingress protection		IP67			
Housing material		Stainless steel		Brass,nickel-plated	
Sensing face material		POM			
Connectors		M8 Connector		M12 Connector	
Accessories		B8-3GU2/B8-3WU2		B12-4GU2/B12-4WU2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

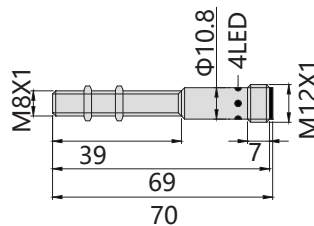
M8X60 Connector ①



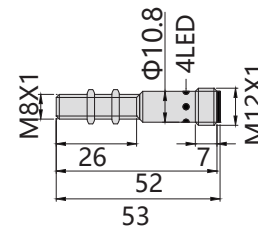
M8X45 Connector ②



M8X70 Connector ③



M8X53 Connector ④



Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BLN-M804N-V11U2	BLN-M804N-V11U2-S	BLN-M804N-V11S8	BLN-M804N-V11S8-S
	NPN N.C	BLN-M804N-V21U2	BLN-M804N-V21U2-S	BLN-M804N-V21S8	BLN-M804N-V21S8-S
	PNP N.O	BLN-M804P-V11U2	BLN-M804P-V11U2-S	BLN-M804P-V11S8	BLN-M804P-V11S8-S
	PNP N.C	BLN-M804P-V21U2	BLN-M804P-V21U2-S	BLN-M804P-V21S8	BLN-M804P-V21S8-S
Exterior structure		M8*1mm			
Sensing Distance		4mm (Non-Flush)			
Switching frequency		1000Hz			
Operating voltage		10...30VDC(±10%)			
Voltage drop		≤2.0V			
Load current		100mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-40...85°C			
Ingress protection		IP67			
Housing material		Stainless steel			
Sensing face material		POM			
Connectors		2m PUR Cable, 3*0.18mm ²		M8 Connector	
Accessories		None		B8-3GU2/B8-3WU2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

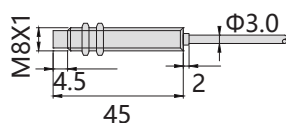
Wide Temperature

High Temperature

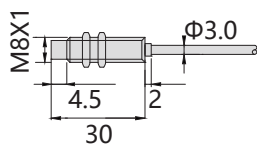
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

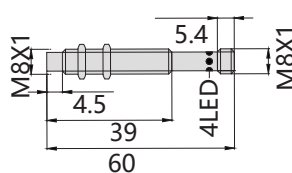
M8X45 Cable ①



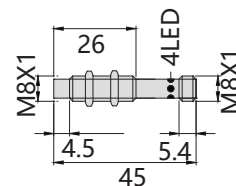
M8X30 Cable ②



M8X60 Connector ③



M8X45 Connector ④



Features:

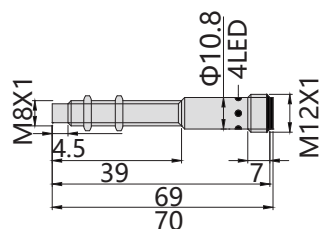
- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

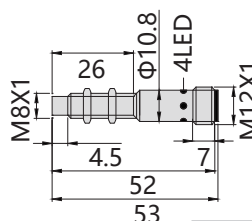
Model No	Appearance		①	②
	NPN N.O	BLN-M804N-C11S12		BLN-M804N-C11S12-S
	NPN N.C	BLN-M804N-C21S12		BLN-M804N-C21S12-S
	PNP N.O	BLN-M804P-C11S12		BLN-M804P-C11S12-S
	PNP N.C	BLN-M804P-C21S12		BLN-M804P-C21S12-S
Cylindrical	Exterior structure	M8*1mm		
Rectangular	Sensing Distance	4mm(Non-Flush)		
Namur	Switching frequency	1000Hz		
	Operating voltage	10...30VDC(±10%)		
Metalface	Voltage drop	≤2.0V		
	Load current	100mA		
Teflon	Leakage current	≤0.01mA		
Analog	No-load current	≤10mA(24V)		
	Hysteresis	<15%(Sr)		
Ring probe	Repeatability	<1.0%(Sr)		
Wide Temperature	Switch protection	Short-circuit protection,Polarity reversal protection,Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
High Temperature	Ambient temperature	-40...85°C		
Factor 1	Ingress protection	IP67		
	Housing material	Brass,nickel-plated		
	Sensing face material	POM		
	Connectors	M12 Connector		
	Accessories	B12-4GU2/B12-4WU2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M8X70 Connector ①



M8X53 Connector ②



Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BLB-M1204N-C11U2	BLB-M1204N-C11U2-S	BLB-M1204N-C11S12	BLB-M1204N-C11S12-S
	NPN N.C	BLB-M1204N-C21U2	BLB-M1204N-C21U2-S	BLB-M1204N-C21S12	BLB-M1204N-C21S12-S
	PNP N.O	BLB-M1204P-C11U2	BLB-M1204P-C11U2-S	BLB-M1204P-C11S12	BLB-M1204P-C11S12-S
	PNP N.C	BLB-M1204P-C21U2	BLB-M1204P-C21U2-S	BLB-M1204P-C21S12	BLB-M1204P-C21S12-S
Exterior structure		M12*1mm			
Sensing Distance		4mm (Flush)			
Switching frequency		3000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-40...85°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		PBT			
Connectors		2m PUR Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GU2/B12-4WU2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

Wide Temperature

High Temperature

Factor 1

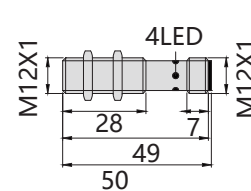
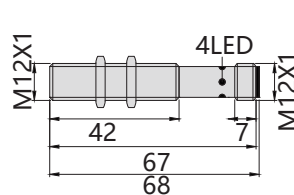
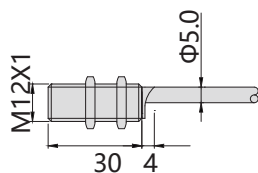
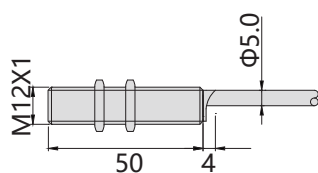
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X50 Cable ①

M12X30 Cable ②

M12X68 Connector ③

M12X50 Connector ④



Features:

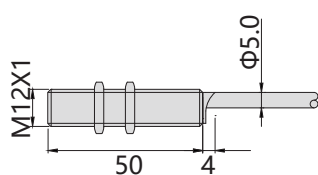
- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

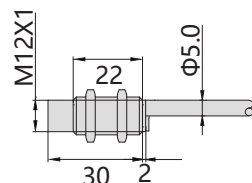
Appearance					
Model No	NPN N.O	BLN-M1208N-C11U2	BLN-M1208N-C11U2-S	BLN-M1208N-C11S12	BLN-M1208N-C11S12-S
	NPN N.C	BLN-M1208N-C21U2	BLN-M1208N-C21U2-S	BLN-M1208N-C21S12	BLN-M1208N-C21S12-S
	PNP N.O	BLN-M1208P-C11U2	BLN-M1208P-C11U2-S	BLN-M1208P-C11S12	BLN-M1208P-C11S12-S
	PNP N.C	BLN-M1208P-C21U2	BLN-M1208P-C21U2-S	BLN-M1208P-C21S12	BLN-M1208P-C21S12-S
Exterior structure		M12*1mm			
Sensing Distance		8mm (Non-Flush)			
Switching frequency		500Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-40...85℃			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		PBT			
Connectors		2m PUR Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GU2/B12-4WU2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

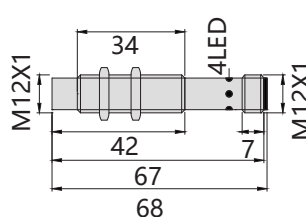
M12X50 Cable ①



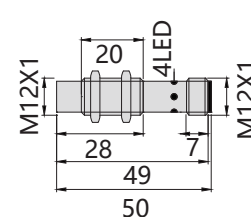
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④



Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

Appearance		①	②	③	④
Model No	NPN N.O	BLB-M1808N-C11U2	BLB-M1808N-C11U2-S	BLB-M1808N-C11S12	BLB-M1808N-C11S12-S
	NPN N.C	BLB-M1808N-C21U2	BLB-M1808N-C21U2-S	BLB-M1808N-C21S12	BLB-M1808N-C21S12-S
	PNP N.O	BLB-M1808P-C11U2	BLB-M1808P-C11U2-S	BLB-M1808P-C11S12	BLB-M1808P-C11S12-S
	PNP N.C	BLB-M1808P-C21U2	BLB-M1808P-C21U2-S	BLB-M1808P-C21S12	BLB-M1808P-C21S12-S
Exterior structure		M18*1mm			
Sensing Distance		8mm (Flush)			
Switching frequency		3000Hz			
Operating voltage		10...30VDC (±10%)			
Voltage drop		≤2.0V			
Load current		200mA			
Leakage current		≤0.01mA			
No-load current		≤10mA(24V)			
Hysteresis		<15%(Sr)			
Repeatability		<1.0%(Sr)			
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection			
LED indicator		With (Action: LED Indicator Lights Up)			
Ambient temperature		-40...85°C			
Ingress protection		IP67			
Housing material		Brass,nickel-plated			
Sensing face material		PBT			
Connectors		2m PUR Cable, 3*0.35mm ²		M12 Connector	
Accessories		None		B12-4GU2/B12-4WU2	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

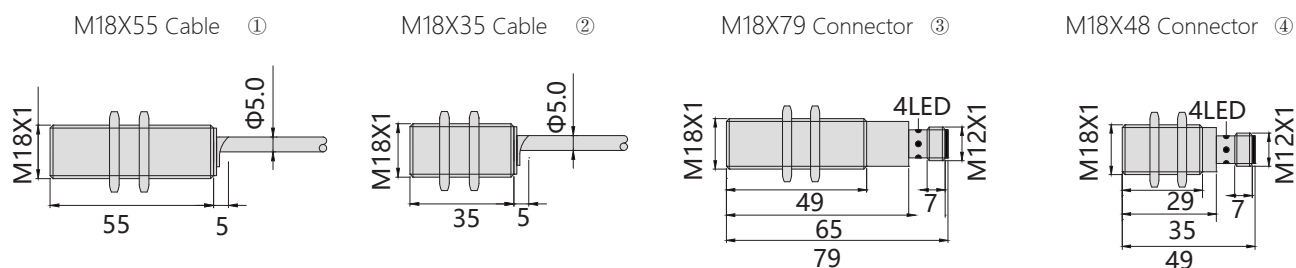
Wide Temperature

High Temperature

Factor 1

Dimensioned drawing

(Dimensional drawing ① corresponds to technical parameters - appearance column ①)



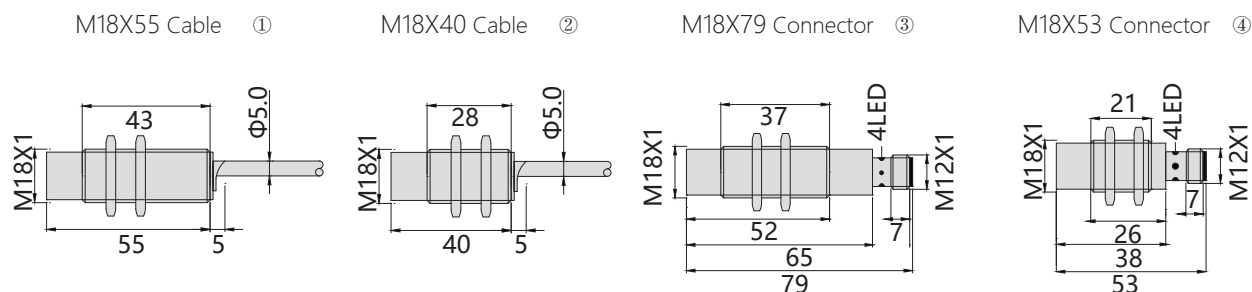
Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

Model No	Appearance			
	NPN N.O	BLN-M1816N-C11U2	BLN-M1816N-C11U2-S	BLN-M1816N-C11S12
	NPN N.C	BLN-M1816N-C21U2	BLN-M1816N-C21U2-S	BLN-M1816N-C21S12
	PNP N.O	BLN-M1816P-C11U2	BLN-M1816P-C11U2-S	BLN-M1816P-C11S12
	PNP N.C	BLN-M1816P-C21U2	BLN-M1816P-C21U2-S	BLN-M1816P-C21S12
Cylindrical	Exterior structure	M18*1mm		
Rectangular	Sensing Distance	16mm (Non-Flush)		
Namur	Switching frequency	500Hz		
Metalface	Operating voltage	10...30VDC (±10%)		
Teflon	Voltage drop	≤2.0V		
Analog	Load current	200mA		
Ring probe	Leakage current	≤0.01mA		
Wide Temperature	No-load current	≤10mA(24V)		
High Temperature	Hysteresis	<15%(Sr)		
Factor 1	Repeatability	<1.0%(Sr)		
	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-40...85°C		
	Ingress protection	IP67		
	Housing material	Brass, nickel-plated		
	Sensing face material	POM		
	Connectors	2m PUR Cable, 3*0.35mm ²		M12 Connector
	Accessories	None		B12-4GU2/B12-4WU2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

Appearance		 ①	 ②
Model No	NPN N.O	BLB-M3010N-C11U2	BLB-M3010N-C11U2-S
	NPN N.C	BLB-M3010N-C21U2	BLB-M3010N-C21U2-S
	PNP N.O	BLB-M3010P-C11U2	BLB-M3010P-C11U2-S
	PNP N.C	BLB-M3010P-C21U2	BLB-M3010P-C21U2-S
Exterior structure		M30*1.5mm	
Sensing Distance		10mm(Flush)	
Switching frequency		300Hz	
Operating voltage		10...30VDC (±10%)	
Voltage drop		≤2.0V	
Load current		200mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-40...85℃	
Ingress protection		IP67	
Housing material		Brass,nickel-plated	
Sensing face material		PBT	
Connectors		2m PUR Cable, 3*0.35mm ²	
Accessories		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

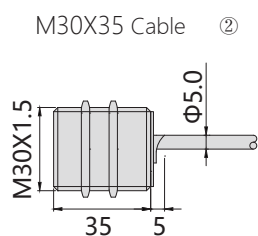
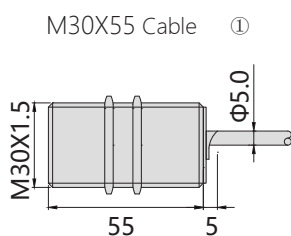
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

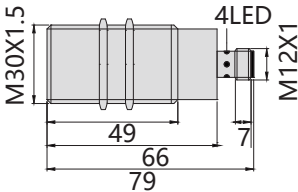
- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

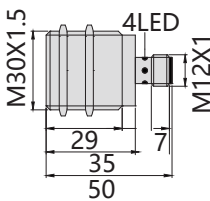
Model No	Appearance		①	②
	NPN N.O	BLB-M3010N-C11S12		BLB-M3010N-C11S12-S
	NPN N.C	BLB-M3010N-C21S12		BLB-M3010N-C21S12-S
	PNP N.O	BLB-M3010P-C11S12		BLB-M3010P-C11S12-S
	PNP N.C	BLB-M3010P-C21S12		BLB-M3010P-C21S12-S
Cylindrical	Exterior structure	M30*1.5mm		
Rectangular	Sensing Distance	10mm(Flush)		
Namur	Switching frequency	300Hz		
Metalface	Operating voltage	10...30VDC (±10%)		
	Voltage drop	≤2.0V		
Teflon	Load current	200mA		
Analog	Leakage current	≤0.01mA		
	No-load current	≤10mA(24V)		
Ring probe	Hysteresis	<15%(Sr)		
Wide Temperature	Repeatability	<1.0%(Sr)		
	Switch protection	Short-circuit protection, Polarity reversal protection,Power-on protection		
High Temperature	LED indicator	With (Action: LED Indicator Lights Up)		
Factor 1	Ambient temperature	-40...85°C		
	Ingress protection	IP67		
	Housing material	Brass,nickel-plated		
	Sensing face material	PBT		
	Connectors	M12 Connector		
	Accessories	B12-4GU2/B12-4WU2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



M30X48 Connector ②



Features:

- Wide detection range;
- High precision, strong anti-interference;
- Temperature-40°C...85°C

Technical data

Appearance		 	
Model No	NPN N.O	BLN-M3015N-C11U2	BLN-M3015N-C11U2-S
	NPN N.C	BLN-M3015N-C21U2	BLN-M3015N-C21U2-S
	PNP N.O	BLN-M3015P-C11U2	BLN-M3015P-C11U2-S
	PNP N.C	BLN-M3015P-C21U2	BLN-M3015P-C21U2-S
Exterior structure		M30*1.5mm	
Sensing Distance		15mm (Non-Flush)	
Switching frequency		300Hz	
Operating voltage		10...30VDC (±10%)	
Voltage drop		≤2.0V	
Load current		200mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-40...85°C	
Ingress protection		IP67	
Housing material		Brass, nickel-plated	
Sensing face material		PBT	
Connectors		2m PUR Cable, 3*0.35mm ²	
Accessories		None	

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

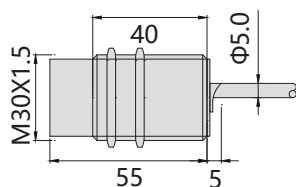
Ring probe

Wide
TemperatureHigh
Temperature

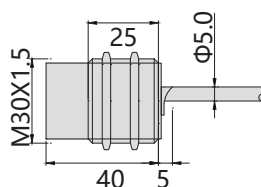
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X55 Cable ①



M30X40 Cable ②



Features:

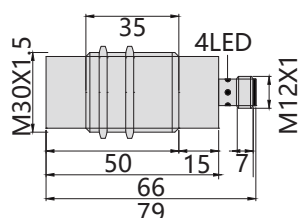
- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Technical data

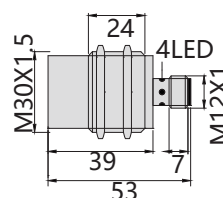
Model No	Appearance		①	②
	NPN N.O	BLN-M3015N-C11S12		BLN-M3015N-C11S12-S
	NPN N.C	BLN-M3015N-C21S12		BLN-M3015N-C21S12-S
	PNP N.O	BLN-M3015P-C11S12		BLN-M3015P-C11S12-S
	PNP N.C	BLN-M3015P-C21S12		BLN-M3015P-C21S12-S
Cylindrical	Exterior structure	M30*1.5mm		
Rectangular	Sensing Distance	15mm (Non-Flush)		
Namur	Switching frequency	300Hz		
	Operating voltage	10...30VDC (±10%)		
Metalface	Voltage drop	≤2.0V		
	Load current	200mA		
Teflon	Leakage current	≤0.01mA		
Analog	No-load current	≤10mA(24V)		
	Hysteresis	<15%(Sr)		
Ring probe	Repeatability	<1.0%(Sr)		
Wide Temperature	Switch protection	Short-circuit protection,Polarity reversal protection,Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
High Temperature	Ambient temperature	-40...85°C		
Factor 1	Ingress protection	IP67		
	Housing material	Brass,nickel-plated		
	Sensing face material	PBT		
	Connectors	M12 Connector		
	Accessories	B12-4GU2/B12-4WU2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M30X79 Connector ①



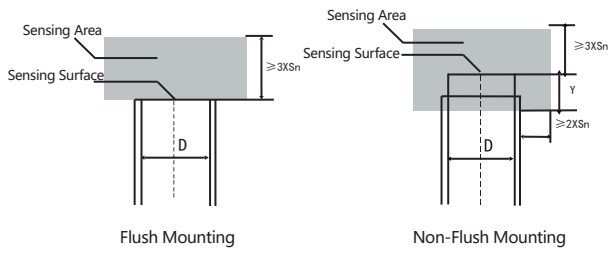
M30X53 Connector ②



Features:

- Low temperature resistance;
- Suitable for cold storage, extremely cold environment;
- Temperature -40°C...85°C

Mounting

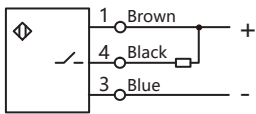


Reduction factor

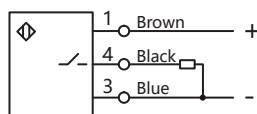
Sensing object material	Factor
Fe360Steel	1
Aluminium	0.35~0.45
Brass	0.35~0.5
Steel	0.25~0.45
Stainless steel	0.6~1.0
Cast iron	0.93~1.05
Nickel	0.65~0.75

Wiring

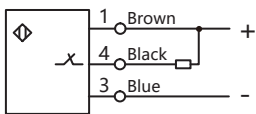
DC NPN-NO



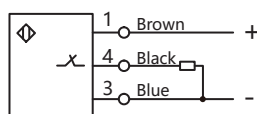
DC PNP-NO



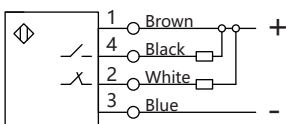
DC NPN-NC



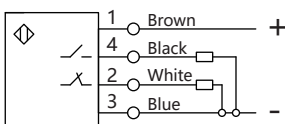
DC PNP-NC



DC NPN NO+NC



DC PNP NO+NC



EURO M12 Connector

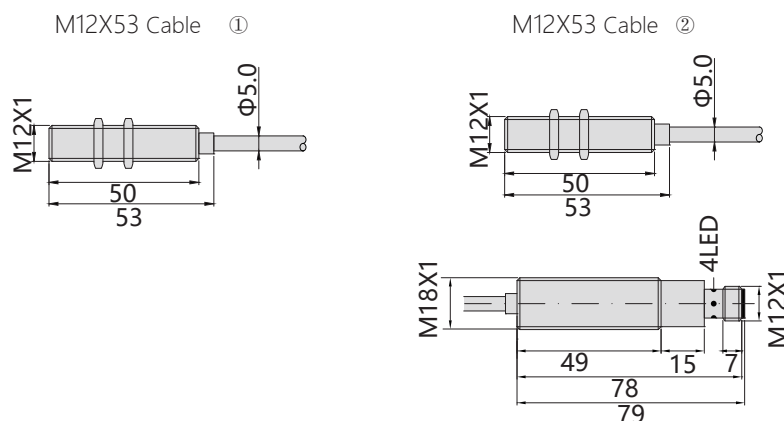


M12 M18 M30 M50 Q40
Inductive proximity sensors
 Stainless steel housing
High temperature
 DC 3 wire/DC 4 wire

Technical data

Appearance				
Model No	NPN N.O	BHB-M1202N-V11G2-120	BHB-M1204N-V11G2-120	BHB-M1203N-V11A3-Z12-150/180/230EXT
	NPN N.C	BHB-M1202N-V21G2-120	BHB-M1204N-V21G2-120	BHB-M1203N-V21A3-Z12-150/180/230EXT
	PNP N.O	BHB-M1202P-V11G2-120	BHB-M1204P-V11G2-120	BHB-M1203P-V11A3-Z12-150/180/230EXT
	PNP N.C	BHB-M1202P-V21G2-120	BHB-M1204P-V21G2-120	BHB-M1203P-V21A3-Z12-150/180/230EXT
	NPN N.O+N.C			BHB-M1203N-V31A3-Z12-150/180/230EXT
	PNP N.O+N.C			BHB-M1203P-V31A3-Z12-150/180/230EXT
Ambient temperature		-25...120℃		-25...150℃/180℃/230℃
Exterior structure		M12*1mm		M12*1mm
Sensing Distance		2mm (Flush)	4mm (Flush)	3mm (Flush)
Switching frequency		500Hz		150Hz
Operating voltage		10...30VDC(±10%)		10...30VDC(±10%)
Voltage drop		≤2.0V		≤2.0V
Amplifier		None		External
Load current		200mA/24V DC		200mA
No-load current		≤10mA(24V)		≤25mA(24V)
Hysteresis		<3...15%(Sr)		<3...15%(Sr)
Repeatability		<1.0%(Sr)		<3.0%(Sr)
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection		Short-circuit protection,Polarity reversal protection,Power-on protection
LED indicator		None		With (Action: LED Indicator Lights Up)
Ingress protection		IP66		IP66
Housing material		Stainless steel		Stainless steel
Sensing face material		PTFE		PEEK
Connectors		2m Silicone cable, 3*0.35mm ²		3m KFF46PH cable/M12 Connector
Accessories		None		B12-4GV2/B12-4WV2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 ° C ~ 230 ° C

Technical data

Appearance		①	②
Model No	NPN N.O	BHN-M1204N-V11G2-120	BHN-M1204N-V11A3-Z12-150/180/230EXT
	NPN N.C	BHN-M1204N-V21G2-120	BHN-M1204N-V21A3-Z12-150/180/230EXT
	PNP N.O	BHN-M1204P-V11G2-120	BHN-M1204P-V11A3-Z12-150/180/230EXT
	PNP N.C	BHN-M1204P-V21G2-120	BHN-M1204P-V21A3-Z12-150/180/230EXT
	NPN N.O+N.C		BHN-M1204N-V31A3-Z12-150/180/230EXT
	PNP N.O+N.C		BHN-M1204P-V31A3-Z12-150/180/230EXT
Ambient temperature		-25...120°C	-25...150°C/180°C/230°C
Exterior structure		M12*1mm	M12*1mm
Sensing Distance		4mm (Non-Flush)	4mm (Non-Flush)
Switching frequency		500Hz	150Hz
Operating voltage		10...30VDC(±10%)	10...30VDC(±10%)
Voltage drop		≤2.0V	≤2.0V
Amplifier		None	External
Load current		200mA/24V DC	200mA
No-load current		≤10mA(24V)	≤25mA(24V)
Hysteresis		<3...15%(Sr)	<3...15%(Sr)
Repeatability		<1.0%(Sr)	<3.0%(Sr)
Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection	Short-circuit protection, Polarity reversal protection, Power-on protection
LED indicator		None	With (Action: LED Indicator Lights Up)
Ingress protection		IP66	IP66
Housing material		Stainless steel	Stainless steel
Sensing face material		PTFE	PEEK
Connectors		2m Silicone cable, 3*0.35mm ²	3m KFF46PH cable/M12 Connector
Accessories		None	B12-4GV2/B12-4WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

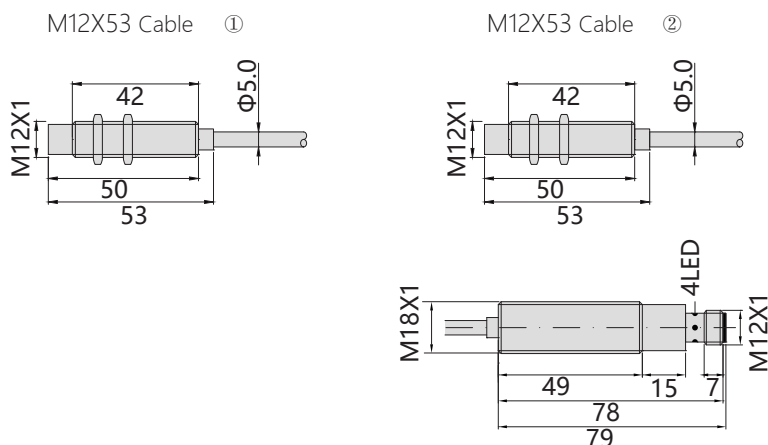
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ②)



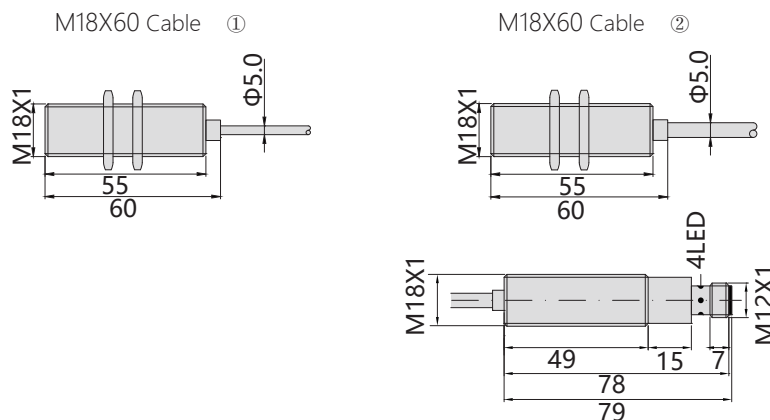
Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Technical data

	Model No	Appearance	①	②
Cylindrical	NPN N.O		BHB-M1805N-V11G2-120	BHB-M1805N-V11A3-Z12-150/180/230EXT
	NPN N.C		BHB-M1805N-V21G2-120	BHB-M1805N-V21A3-Z12-150/180/230EXT
	PNP N.O		BHB-M1805P-V11G2-120	BHB-M1805P-V11A3-Z12-150/180/230EXT
	PNP N.C		BHB-M1805P-V21G2-120	BHB-M1805P-V21A3-Z12-150/180/230EXT
	NPN N.O+N.C			BHB-M1805N-V31A3-Z12-150/180/230EXT
	PNP N.O+N.C			BHB-M1805P-V31A3-Z12-150/180/230EXT
Rectangular	Ambient temperature		-25...120°C	-25...150°C/180°C/230°C
Namur	Exterior structure		M18*1mm	M18*1mm
Metalface	Sensing Distance		5mm (Flush)	5mm (Flush)
	Switching frequency		500Hz	100Hz
Teflon	Operating voltage		10...30VDC(±10%)	10...30VDC(±10%)
Analog	Voltage drop		≤2.0V	≤2.0V
	Amplifier		None	External
Ring probe	Load current		200mA/24V DC	200mA
Wide Temperature	No-load current		≤10mA(24V)	≤25mA(24V)
	Hysteresis		<3...15%(Sr)	<3...15%(Sr)
High Temperature	Repeatability		<1.0%(Sr)	<3.0%(Sr)
	Switch protection		Short-circuit protection, Polarity reversal protection, Power-on protection	Short-circuit protection, Polarity reversal protection, Power-on protection
Factor 1	LED indicator		None	With (Action: LED Indicator Lights Up)
	Ingress protection		IP66	IP66
	Housing material		Stainless steel	Stainless steel
	Sensing face material		PTFE	PEEK
	Connectors		2m Silicone cable, 3*0.35mm ²	3m KFF46PH cable/M12 Connector
	Accessories		None	B12-4GV2/B12-4WV2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Technical data

Appearance		①	②
Model No	NPN N.O	BHN-M1808N-V11G2-120	BHN-M1808N-V11A3-Z12-150/180/230EXT
	NPN N.C	BHN-M1808N-V21G2-120	BHN-M1808N-V21A3-Z12-150/180/230EXT
	PNP N.O	BHN-M1808P-V11G2-120	BHN-M1808P-V11A3-Z12-150/180/230EXT
	PNP N.C	BHN-M1808P-V21G2-120	BHN-M1808P-V21A3-Z12-150/180/230EXT
	NPN N.O+N.C		BHN-M1808N-V31A3-Z12-150/180/230EXT
	PNP N.O+N.C		BHN-M1808P-V31A3-Z12-150/180/230EXT
Ambient temperature		-25...120°C	-25...150°C/180°C/230°C
Exterior structure		M18*1mm	M18*1mm
Sensing Distance		8mm (Non-Flush)	8mm (Non-Flush)
Switching frequency		500Hz	100Hz
Operating voltage		10...30VDC(±10%)	10...30VDC(±10%)
Voltage drop		≤2.0V	≤2.0V
Amplifier		None	External
Load current		200mA/24V DC	200mA
No-load current		≤10mA(24V)	≤25mA(24V)
Hysteresis		<3...15%(Sr)	<3...15%(Sr)
Repeatability		<1.0%(Sr)	<3.0%(Sr)
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection	Short-circuit protection,Polarity reversal protection,Power-on protection
LED indicator		None	With (Action: LED Indicator Lights Up)
Ingress protection		IP66	IP66
Housing material		Stainless steel	Stainless steel
Sensing face material		PTFE	PEEK
Connectors		2m Silicone cable, 3*0.35mm²	3m KFF46PH cable/M12 Connector
Accessories		None	B12-4GV2/B12-4WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

Ring probe

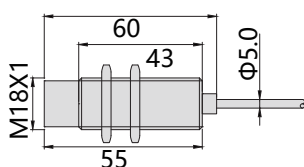
Wide Temperature

High Temperature

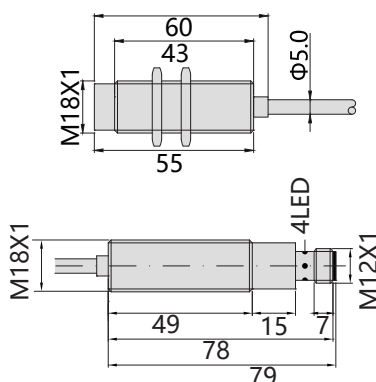
Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M18X55 Cable ①



M18X55 Cable ②



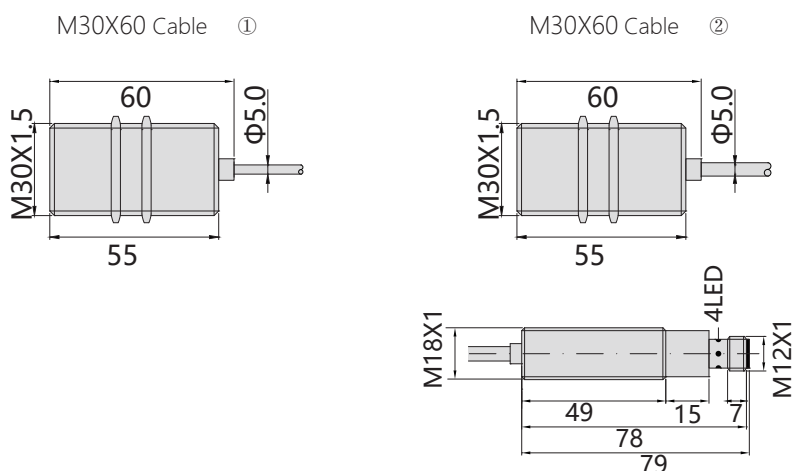
Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Technical data

	Appearance		①	②
				
Model No		NPN N.O	BHB-M3010N-V11G2-120	BHB-M3010N-V11A3-Z12-150/180/230EXT
		NPN N.C	BHB-M3010N-V21G2-120	BHB-M3010N-V21A3-Z12-150/180/230EXT
		PNP N.O	BHB-M3010P-V11G2-120	BHB-M3010P-V11A3-Z12-150/180/230EXT
		PNP N.C	BHB-M3010P-V21G2-120	BHB-M3010P-V21A3-Z12-150/180/230EXT
		NPN N.O+N.C		BHB-M3010N-V31A3-Z12-150/180/230EXT
		PNP N.O+N.C		BHB-M3010P-V31A3-Z12-150/180/230EXT
Cylindrical	Ambient temperature	-25...120°C		-25...150°C/180°C/230°C
Rectangular	Exterior structure	M30*1.5mm		M30*1.5mm
Namur	Sensing Distance	10mm (Flush)		10mm (Flush)
Metalface	Switching frequency	300Hz		50Hz
Teflon	Operating voltage	10...30VDC(±10%)		10...30VDC(±10%)
Analog	Voltage drop	≤2.0V		≤2.0V
	Amplifier	None		External
Ring probe	Load current	200mA/24V DC		200mA
Wide Temperature	No-load current	≤10mA(24V)		≤25mA(24V)
High Temperature	Hysteresis	<3...15%(Sr)		<3...15%(Sr)
	Repeatability	<1.0%(Sr)		<3.0%(Sr)
Factor 1	Switch protection	Short-circuit protection,Polarity reversal protection,Power-on protection		Short-circuit protection,Polarity reversal protection,Power-on protection
	LED indicator	None		With (Action: LED Indicator Lights Up)
	Ingress protection	IP66		IP66
	Housing material	Stainless steel		Stainless steel
	Sensing face material	PTFE		PEEK
	Connectors	2m Silicone cable, 3*0.35mm ²		3m KFF46PH cable/M12 Connector
	Accessories	None		B12-4GV2/B12-4WV2

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ②)



Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Technical data

Appearance		①	②
Model No	NPN N.O	BHN-M3015N-V11G2-120	BHN-M3015N-V11A3-Z12-150/180/230EXT
	NPN N.C	BHN-M3015N-V21G2-120	BHN-M3015N-V21A3-Z12-150/180/230EXT
	PNP N.O	BHN-M3015P-V11G2-120	BHN-M3015P-V11A3-Z12-150/180/230EXT
	PNP N.C	BHN-M3015P-V21G2-120	BHN-M3015P-V21A3-Z12-150/180/230EXT
	NPN N.O+N.C		BHN-M3015N-V31A3-Z12-150/180/230EXT
	PNP N.O+N.C		BHN-M3015P-V31A3-Z12-150/180/230EXT
Ambient temperature		-25...120°C	-25...150°C/180°C/230°C
Exterior structure		M30*1.5mm	M30*1.5mm
Sensing Distance		15mm (Non-Flush)	15mm (Non-Flush)
Switching frequency		100Hz	50Hz
Operating voltage		10...30VDC(±10%)	10...30VDC(±10%)
Voltage drop		≤2.0V	≤2.0V
Amplifier		None	External
Load current		200mA/24V DC	200mA
No-load current		≤10mA(24V)	≤25mA(24V)
Hysteresis		<3...15%(Sr)	<3...15%(Sr)
Repeatability		<1.0%(Sr)	<3.0%(Sr)
Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection	Short-circuit protection,Polarity reversal protection,Power-on protection
LED indicator		None	With (Action: LED Indicator Lights Up)
Ingress protection		IP66	IP66
Housing material		Stainless steel	Stainless steel
Sensing face material		PTFE	PEEK
Connectors		2m Silicone cable, 3*0.35mm ²	3m KFF46PH cable/M12 Connector
Accessories		None	B12-4GV2/B12-4WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

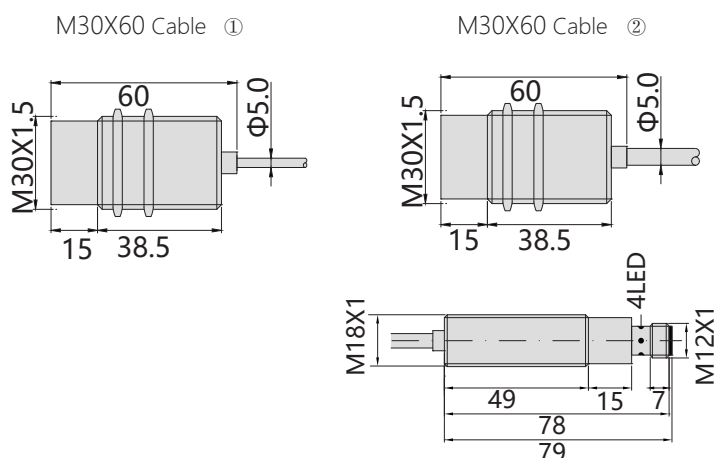
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Features

- Temperature extension range -25... 250 °C;
- 3m metal-sheathed cable between sensor and amplifier;
- Minimum bending radius 15cm

Model NO

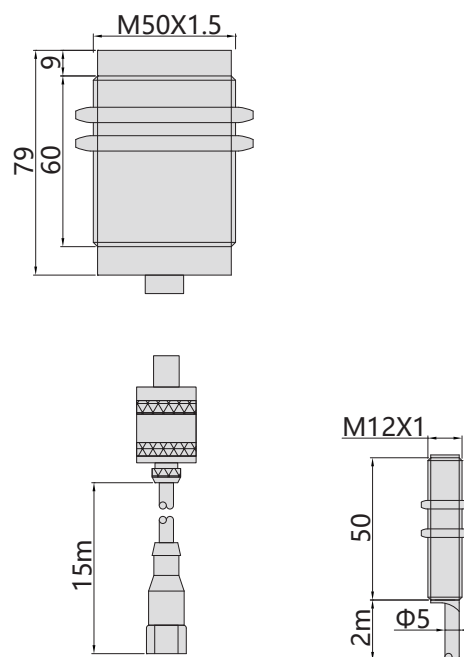
High temperature sensor **BHN-M5030**

Technical data

Switching frequency	0...20Hz
Hysteresis	0.3...5 Typical value 2%
Standards	IEC/EN60947-5-2-2004
Ambient temperature	-25...250°C
Rated action distance	30mm
Reliable sensing distance	0...24mm
Mounting	Non-flush mounting
Wiring form	LEMO Connector
Housing material	Stainless steel
Ingress protection	IP65



Dimensioned drawing



Features

- M12 threaded cylindrical housing for through-hole/bracket assembly
- LED yellow indicator, stainless steel housing, factory calibration
- Polarity reversal protection, output overload protection, output short-circuit protection, Ingress protection IP67

Technical data

Operating voltage	10...30VDC
No-load current	<10mA
Maximum load current	200mA
Voltage drop	<2.0VDC
Ambient temperature	-25...70°C

High temperature amplifier

NPN NO	AH-M12N-V11U2
NPN NC	AH-M12N-V21U2
PNP NO	AH-M12P-V11U2
PNP NC	AH-M12P-V21U2
High temperature connection cable	AH-3M
Cable length	3m (Length can be customized)
Material	KFF46PH cable

Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 230 °C

Technical data

①

Appearance		
Model No	NPN N.O	BHN-Q4025N-F11A3-Z12-180/250EXT
	NPN N.C	BHN-Q4025N-F21A3-Z12-180/250EXT
	PNP N.O	BHN-Q4025P-F11A3-Z12-180/250EXT
	PNP N.C	BHN-Q4025P-F21A3-Z12-180/250EXT
	NPN N.O+N.C	BHN-Q4025N-F31A3-Z12-180/250EXT
	PNP N.O+N.C	BHN-Q4025P-F31A3-Z12-180/250EXT
Ambient temperature		-25...180°C/0...250°C
Sensing distance		25mm
Operating voltage		10...30V DC
Switching frequency		0...20Hz
Hysteresis		0.3...5 Typical values 2%
Voltage drop		≤2V
Load current		0...200mA
No-load current		≤25mA
Reliable sensing distance		0...20mm
Ingress protection		Amplifier IP67, Sensors IP40
Short circuit protection		Pulse
Status indicator		Yellow LED indicators IP40
Reduction factor rAI		0.5
Reduction factor rCU		0.5
Reduction factor rV2A		0.6...1
Mounting angle		AI
Housing material		Stainless steel (Amplifier housing) , PTFE/AI/V2A
Sensing face material		PTFE (Teflon)
Connectors		3m KFF46PH /M12 Connector

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

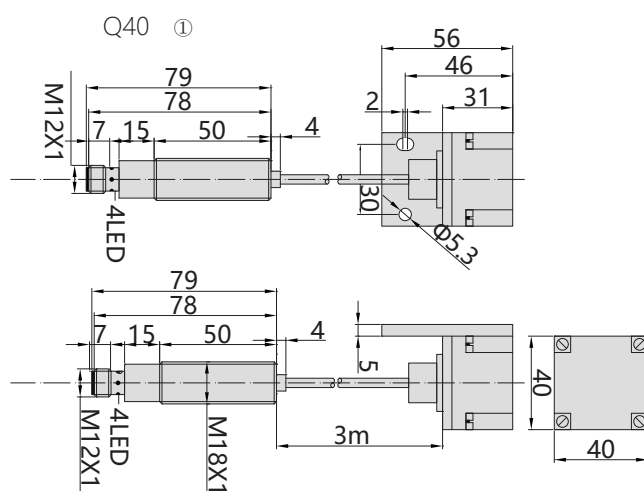
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- High-precision stand-alone operation;
- Built-in non-adjustable high precision amplifier;
- Ambient temperature -25 °C ~ 250 °C

M18 Non-detachable external amplifier

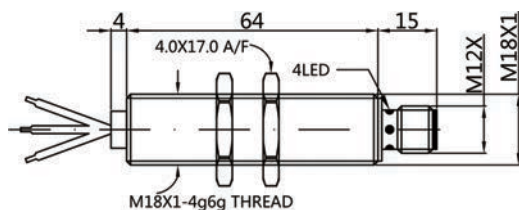


Features:

- M18 threaded cylindrical housing
- Suitable for through-hole or bracket mounting
- LED yellow indicator light
- Stainless steel shell
- Factory calibration
- Polarity reversal protection
- Output overload protection
- Output short circuit protection
- Ingress protection IP67

Cylindrical

Dimensioned drawing

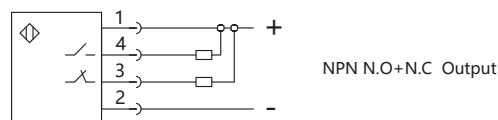


Technical data

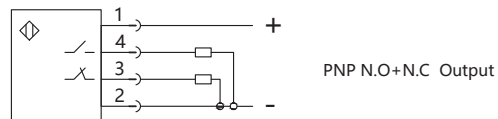
Operating Voltage	10-30VDC (±10%)
No-load current	≤25mA (24V)
Hysteresis	< 3-15% (Sr)
Repeatability	< 3.0% (Sr)
Load current	200mA
Voltage drop	< 1.8V
Switching frequency	800Hz
Output mode	NPN N.O+N.C or PNP N.O+N.C
Switch protection	Short-circuit protection, Polarity reversal protection, power-on protection
LED indicator	Yes (after operation: LED display light on)
Ingress protection	IP67
Ambient temperature	-25...70°C
Housing material	Stainless steel
Connectors	3m KFF46PH cable/M12 Connector
Accessories	B12-4GV2/B12-4WV2

Description of high temperature amplifier

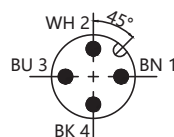
Suitable for high temperature 130-250°C sensors, using M12 connector 4pin for connection.



NPN N.O+N.C Output



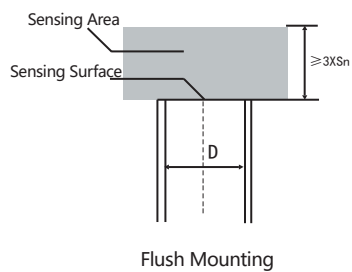
PNP N.O+N.C Output



Cable instructions

The PTFE Teflon armored shielded (KFF46PH) cable is connected to the sensor and cannot be disassembled. Temperature resistance up to 250°C and can resist corrosion from most chemicals. The standard cable length is 3M and can be customized according to requirements.

Mounting

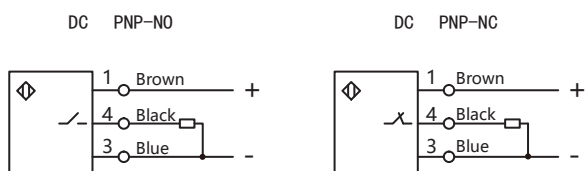
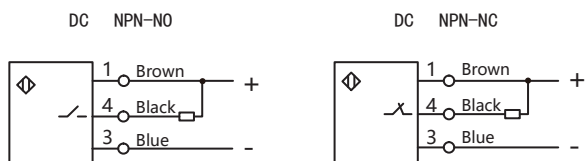


Flush Mounting

Reduction factor

Sensing object material	Factor
Fe360Steel	1
Aluminium	1
Brass	1
Steel	1
Stainless steel	1
Cast iron	1
Nickel	1

Wiring



EURO M12 Connector



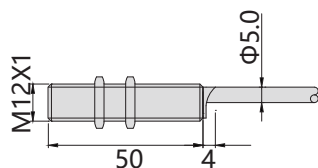
M12 M18 M30
Inductive proximity sensors
 Brass,nickel-plated
Factor 1
 DC 3 wire

Technical data

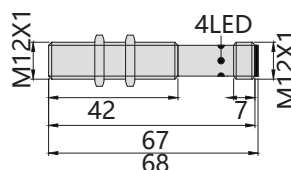
Model No	Appearance		①	②
	NPN N.O	BCB-M1204N-C11P2		BCB-M1204N-C11S12
	NPN N.C	BCB-M1204N-C21P2		BCB-M1204N-C21S12
	PNP N.O	BCB-M1204P-C11P2		BCB-M1204P-C11S12
	PNP N.C	BCB-M1204P-C21P2		BCB-M1204P-C21S12
Cylindrical	Exterior structure	M12*1mm		
Rectangular	Sensing Distance	4mm (Flush)		
Namur	Switching frequency	2000Hz		
Metalface	Operating voltage	10...30VDC (±10%)		
Teflon	Voltage drop	≤2.0V		
Analog	Load current	200mA		
Ring probe	Leakage current	≤0.01mA		
Wide Temperature	No-load current	≤10mA(24V)		
High Temperature	Hysteresis	<15%(Sr)		
Factor 1	Repeatability	<1.0%(Sr)		
	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-25...70°C		
	Ingress protection	IP67		
	Housing material	Brass, nickel-plated		
	Sensing face material	PPS		
	Connectors	2m PVC Cable, 3*0.35mm ²	M12 Connector	
	Accessories	None	B12-4GV2/B12-4WV2	

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

M12X50 Cable ①



M12X68 Connector ②



Features:

- Factor is 1;
- Detection of copper, iron, aluminum;
- Application in the automotive industry

Technical data

Appearance			
Model No	NPN N.O	BCB-M1808N-C11P2	BCB-M1808N-C11S12
	NPN N.C	BCB-M1808N-C21P2	BCB-M1808N-C21S12
	PNP N.O	BCB-M1808P-C11P2	BCB-M1808P-C11S12
	PNP N.C	BCB-M1808P-C21P2	BCB-M1808P-C21S12
Exterior structure		M18*1mm	
Sensing Distance		8mm (Flush)	
Switching frequency		2000Hz	
Operating voltage		10...30VDC (±10%)	
Voltage drop		≤2.0V	
Load current		200mA	
Leakage current		≤0.01mA	
No-load current		≤10mA(24V)	
Hysteresis		<15%(Sr)	
Repeatability		<1.0%(Sr)	
Switch protection		Short-circuit protection, Polarity reversal protection,Power-on protection	
LED indicator		With (Action: LED Indicator Lights Up)	
Ambient temperature		-25...70℃	
Ingress protection		IP67	
Housing material		Brass,nickel-plated	
Sensing face material		PPS	
Connectors		2m PVC Cable, 3*0.35mm ²	M12 Connector
Accessories		None	B12-4GV2/B12-4WV2

Cylindrical

Rectangular

Namur

Metalface

Teflon

Analog

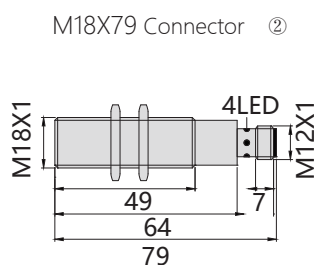
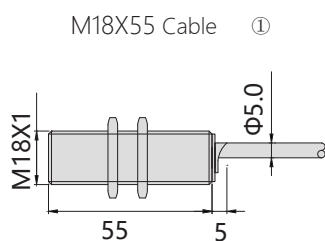
Ring probe

Wide Temperature

High Temperature

Factor 1

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



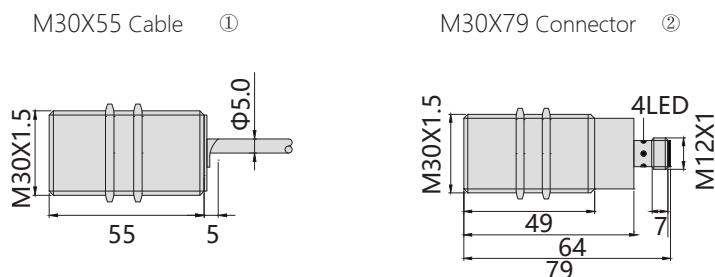
Features:

- Factor is 1;
- Detection of copper, iron, aluminum;
- Application in the automotive industry

Technical data

Model No	Appearance		①	②
	NPN N.O	BCB-M3010N-C11P2		BCB-M3010N-C11S12
	NPN N.C	BCB-M3010N-C21P2		BCB-M3010N-C21S12
	PNP N.O	BCB-M3010P-C11P2		BCB-M3010P-C11S12
	PNP N.C	BCB-M3010P-C21P2		BCB-M3010P-C21S12
Cylindrical	Exterior structure	M30*1.5mm		
Rectangular	Sensing Distance	10mm (Flush)		
Namur	Switching frequency	750Hz		
Metalface	Operating voltage	10...30VDC (±10%)		
Teflon	Voltage drop	≤2.0V		
Analog	Load current	200mA		
Ring probe	Leakage current	≤0.01mA		
Wide Temperature	No-load current	≤10mA(24V)		
High Temperature	Hysteresis	<15%(Sr)		
Factor 1	Repeatability	<1.0%(Sr)		
	Switch protection	Short-circuit protection, Polarity reversal protection, Power-on protection		
	LED indicator	With (Action: LED Indicator Lights Up)		
	Ambient temperature	-25...70°C		
	Ingress protection	IP67		
	Housing material	Brass, nickel-plated		
	Sensing face material	PPS		
	Connectors	2m PVC Cable , 3*0.35mm ²	M12 Connector	
	Accessories	None	B12-4GV2/B12-4WV2	

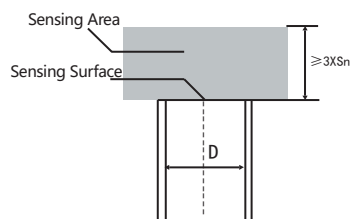
Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)



Features:

- Factor is 1;
- Detection of copper, iron, aluminum;
- Application in the automotive industry

Mounting



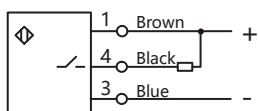
Flush Mounting

Reduction factor

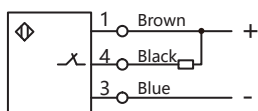
Sensing object material	Factor
Fe360Steel	1
Aluminium	1
Brass	1
Steel	1
Stainless steel	1
Cast iron	1
Nickel	1

Wiring

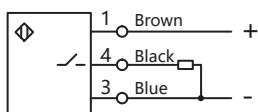
DC NPN-NO



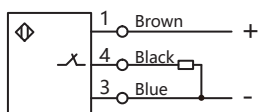
DC NPN-NC



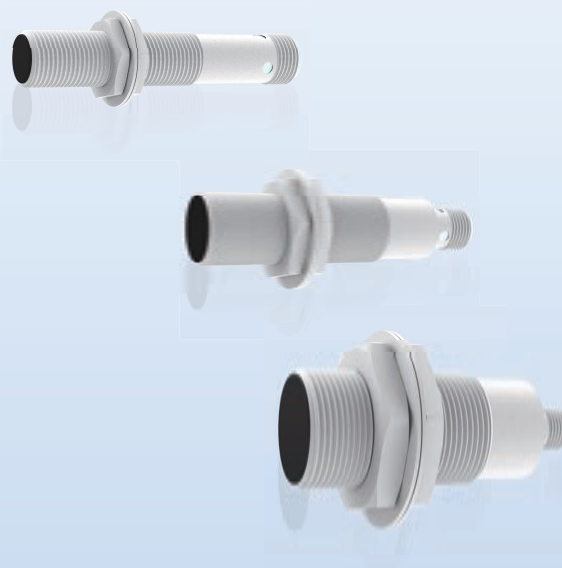
DC PNP-NO



DC PNP-NC



EURO M12 Connector



M12 M18 M30

Inductive proximity sensors

Brass, Teflon-plated

Factor 1

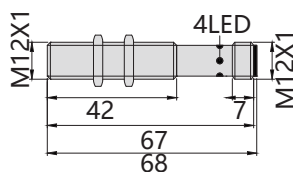
DC 3 wire

Technical data

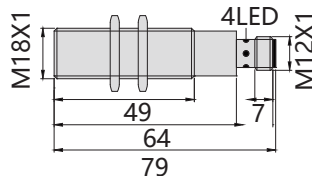
	Model No	Appearance	①	②	③
					
			BCB-M1204N-C11S12-F	BCB-M1808N-C11S12-F	BCB-M3010N-C11S12-F
			BCB-M1204N-C21S12-F	BCB-M1808N-C21S12-F	BCB-M3010N-C21S12-F
			BCB-M1204P-C11S12-F	BCB-M1808P-C11S12-F	BCB-M3010P-C11S12-F
			BCB-M1204P-C21S12-F	BCB-M1808P-C21S12-F	BCB-M3010P-C21S12-F
Cylindrical	Exterior structure		M12*1mm	M18*1mm	M30*1.5mm
Rectangular	Sensing Distance		4mm (Flush)	8mm (Flush)	10mm (Flush)
	Switching frequency		2000Hz	2000Hz	750Hz
Namur	Operating voltage		10...30VDC (±10%)		
Metalface	Voltage drop		≤2.0V		
	Load current		200mA		
Teflon	Leakage current		≤0.01mA		
Analog	No-load current		≤10mA(24V)		
	Hysteresis		<15%(Sr)		
Ring probe	Repeatability		<1.0%(Sr)		
Wide Temperature	Switch protection		Short-circuit protection,Polarity reversal protection,Power-on protection		
High Temperature	LED indicator		With (Action: LED Indicator Lights Up)		
	Ambient temperature		-25...70°C		
Factor 1	Ingress protection		IP67		
	Housing material		Brass, Teflon-plated		
	Sensing face material		PPS		
	Connectors		M12 Connector		
	Accessories		B12-4GV2/B12-4WV2		

Dimensioned drawing (Dimensional drawing ① corresponds to technical parameters - appearance column ①)

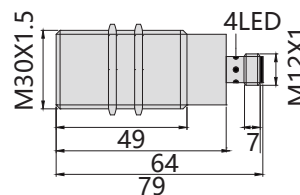
M12X68 Connector ①



M18X79 Connector ②



M30X79 Connector ③



Features:

- Factor is 1;
- Detection of copper, iron, aluminum;
- Application in the automotive industry