

(G) Connector / Socket

- PT1/PT2(Cylindrical type connector) ————— G-1
 CID/CLD Series(Photoelectric/proximity sensor
 connector cable) ————— G-2
 CID Series(Encoder connector cable) ————— G-6
 PT Series(Connection box) ————— G-7
 PG/PS Series(Controller cylindrical type socket) — G-11

(A)	Photo electric sensor
(B)	Fiber optic sensor
(C)	Door/Area sensor
(D)	Proximity sensor
(E)	Pressure sensor
(F)	Rotary encoder
(G)	Connector/ Socket
(H)	Temp. controller
(I)	SSR/ Power controller
(J)	Counter
(K)	Timer
(L)	Panel meter
(M)	Tacho/ Speed/ Pulse meter
(N)	Display unit
(O)	Sensor controller
(P)	Switching power supply
(Q)	Stepping motor & Driver & Controller
(R)	Graphic/ Logic panel
(S)	Field network device
(T)	Production stoppage models & replacement

**Connector cable
CID/CLD Series**

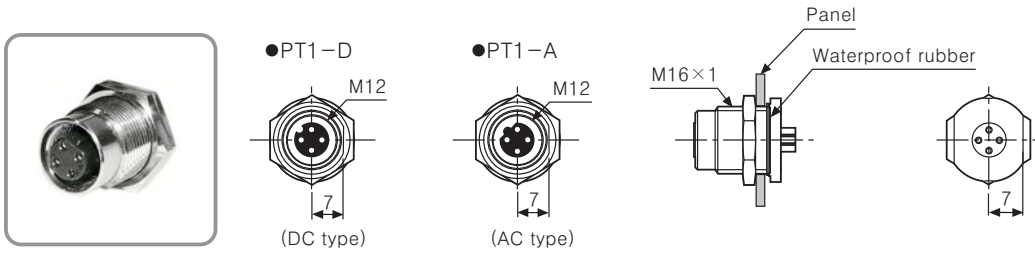


**Connection box
PT Series**

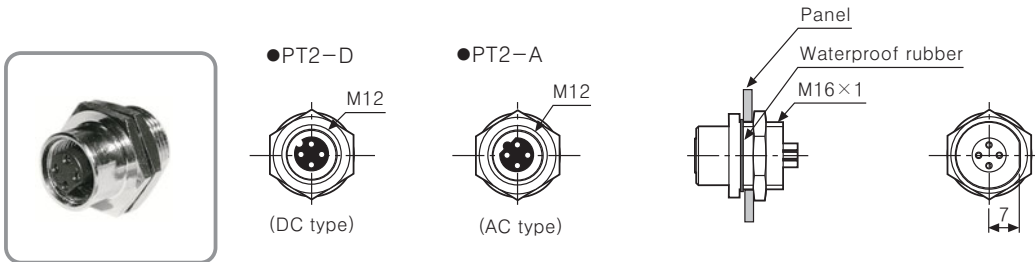


■ Connector for panel mounting

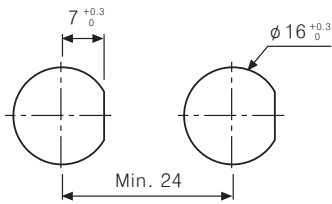
◎ Connector for panel mounting (Non-flush)



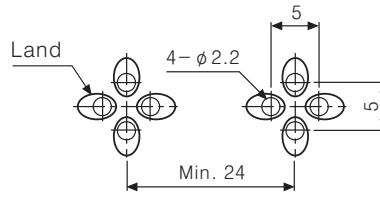
◎ Connector for panel mounting (Flush)



◎ Panel cut-out



◎ Printed circuit board (PCB) cut-out



(Unit : mm)

Photoelectric/Proximity Sensor Connector Cable

■ Connector cable

◎M12 Connector

Appearance		Model	Length	Cable material	
DC 2-wire type	Socket type	CID2-2	2m	PVC	
		CID2-2-1 ※			
		CID2-5	5m		
		CID2-5-1 ※			
		Plug type	CLD2-2		2m
			CLD2-2-1 ※		
	CLD2-5		5m		
	CLD2-5-1 ※				
	Plug type	CID2-2P	2m		
		CID2-5P	5m		
		CLD2-2P	2m		
		CLD2-5P	5m		
DC 3-wire type		Socket type	CID3-2	2m	
			CID3-5	5m	
	CLD3-2		2m		
	Plug type	CLD3-5	5m		
		CID3-2P	2m		
		CLD3-2P	2m		
DC 4-wire type	Socket type	CIDH4-3	3m		
		CIDH4-5	5m		
		CLDH4-3	3m		
		CLDH4-5	5m		
	Plug type	CIDH4-3P	3m		
		CIDH4-5P	5m		
		CLDH4-3P	3m		
		CLDH4-5P	5m		
AC 2-wire type	Socket type	CIA2-2	2m		
		CIA2-5	5m		
		CLA2-2	2m		
		CLA2-5	5m		
	Plug type	CIA2-2P	2m		
		CIA2-5P	5m		
		CLA2-2P	2m		
		CLA2-5P	5m		

◎M8 Connector

Appearance		Model	Length	Cable material
DC 4-wire type	Socket type	CID408-2	2m	PVC
		CID408-5	5m	
		CLD408-2	2m	
		CLD408-5	5m	

▶ "※" mark indicates IEC standard connection and it can be customized.

▶ Be careful of connection, because color is different when DC 4-wire connector cable is used for DC 2-wire sensor.

■ Connector connection cable

◎M12 Connector

Appearance		Model	Length	Cable material	
Socket - Plug Type	DC type	C1D4-2	2m	PVC	
		C1D4-5	5m		
		AC type	C1A4-2		2m
			C1A4-5		5m
			C2D4-2		2m
		DC type	C2D4-5		5m
	AC type		C2A4-2		2m
			C2A4-5		5m
	DC type	C3D4-2	2m		
		C3D4-5	5m		
		AC type	C3A4-2		2m
			C3A4-5		5m
DC type			C4D4-2	2m	
		C4D4-5	5m		
	AC type	C4A4-2	2m		
C4A4-5		5m			
Plug - Plug Type		DC type	C1D4-2P	2m	
	C1D4-5P		5m		
	AC type	C1A4-2P	2m		
		C1A4-5P	5m		

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/Socket

(H) Temp. controller

(I) SSR/Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/Speed/Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

(R) Graphic/Logic panel

(S) Field network device

(T) Production stoppage models & replacement

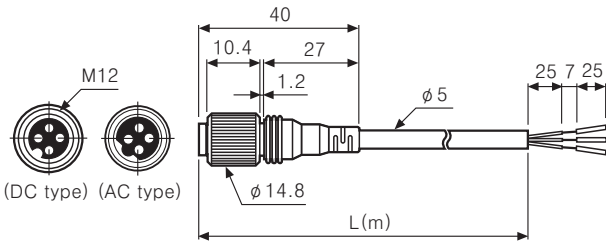
Photoelectric/Proximity Sensor Connector Cable

■ Dimensions

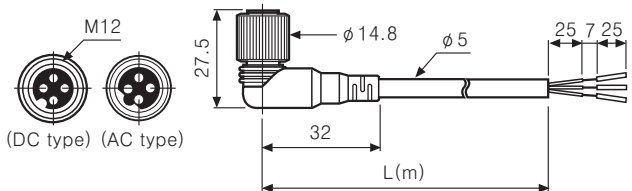
◎ Connector cable (Socket type)

(Unit:mm)

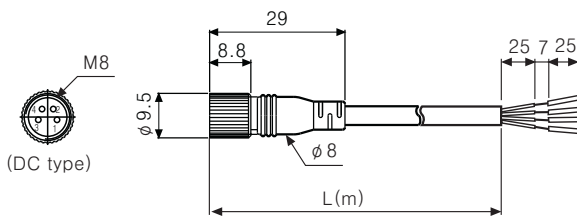
- CID2-□, CID2-□-I ● CID3-□ ● CIA2-□
- CIDH4-□



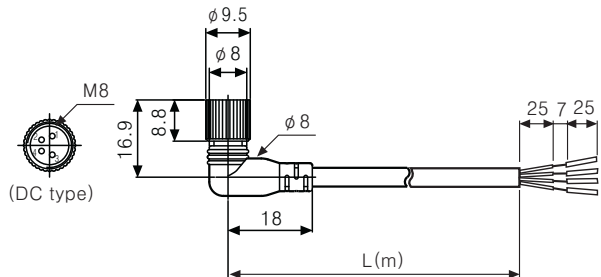
- CLD2-□, CLD2-□-I ● CLD3-□ ● CLA2-□
- CLDH4-□



- CID408-2, CID408-5



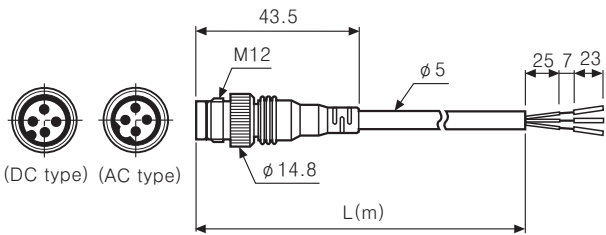
- CLD408-2, CLD408-5



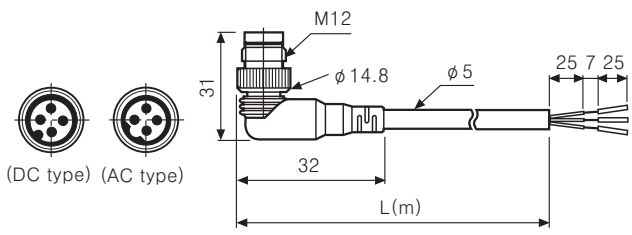
◎ Connector cable (Plug type)

(Unit:mm)

- CID2-2P ● CIA2-2P ● CID3-2P ● CIDH4-□P



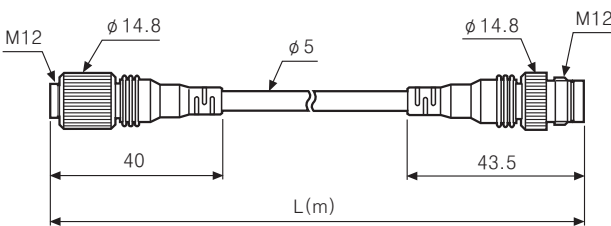
- CLD2-2P ● CLA2-2P ● CLD3-2P ● CLDH4-□P



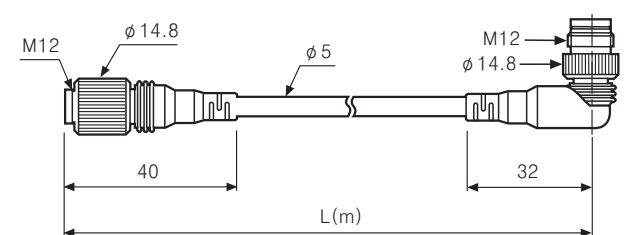
◎ Connector connection cable (Socket-Plug type)

(Unit:mm)

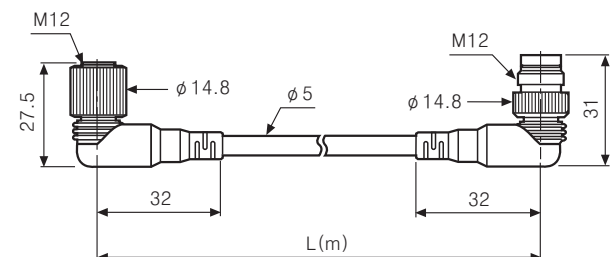
- C1□4-□ (Standard type)



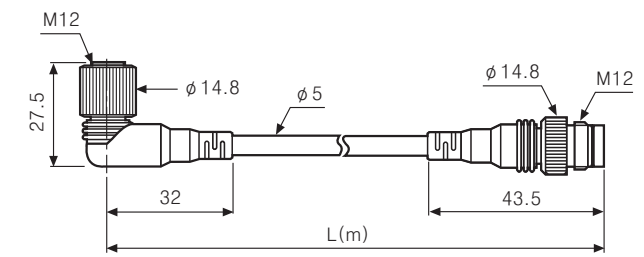
- C3□4-□ (Straight type = L type)



- C2□4-□ (L type = L type)



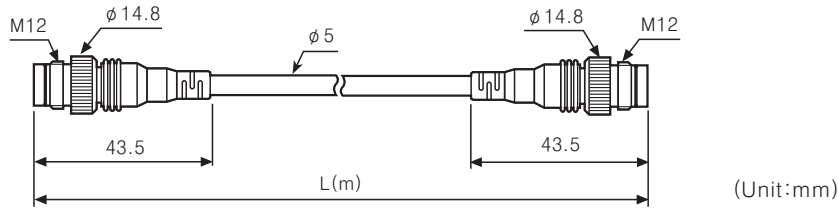
- C4□4-□ (L type = Straight type)



Photoelectric/Proximity Sensor Connector Cable

◎Connector connection cable(Plug – Plug type)

●C1D4-□P, C1A4-□P



■Connections

◎Connector cable

DC 2-wire type(Standard type)	DC 2-wire type(IEC standard type)
<ul style="list-style-type: none"> ●CID2-□ ●CID2-2P ●CLD2-□ ●CLD2-2P 	<ul style="list-style-type: none"> ●CID2-□-I ●CLD2-□-I
<p>Terminal No. Cable color</p>	<p>Terminal No. Cable color</p>

DC 3-wire type	DC 4-wire type
<ul style="list-style-type: none"> ●CID3-□ ●CID3-2P ●CLD3-□ ●CLD3-2P 	<ul style="list-style-type: none"> ●CIA2-□ ●CIA2-2P ●CLA2-□ ●CLA2-2P
<p>Terminal No. Cable color</p>	<p>Terminal No. Cable color</p>

AC 2-wire type	DC 4-wire type
<ul style="list-style-type: none"> ●CIA2-□ ●CLA2-□ ●CIA2-2P ●CLA2-2P 	<ul style="list-style-type: none"> ●CID408-□ ●CLD408-□
<p>Terminal No. Cable color</p>	<p>Terminal No. Cable color</p>

◎Connector connection cable

DC type	AC type
<ul style="list-style-type: none"> ●C1D4-□, C2D4-□, C3D4-□, C4D4-□ ●C1D4-□P 	<ul style="list-style-type: none"> ●C1A4-□, C2A4-□, C3A4-□, C4A4-□ ●C1A4-□P
<p>Terminal No. Terminal No.</p>	<p>Terminal No. Terminal No.</p>

※Pin ② is N.C.(Not Connected).

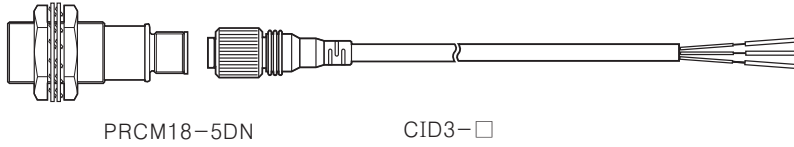
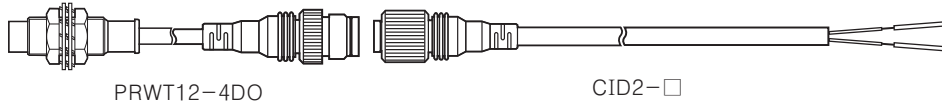
※Pin ② / ③, ① / ④ are connected inside.

- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller
- (I) SSR/ Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/ Speed/ Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/ Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement

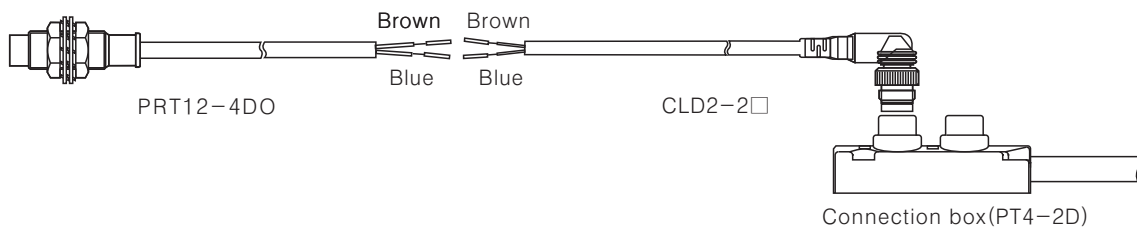
Photoelectric/Proximity Sensor Connector Cable

■ Connector cable connections

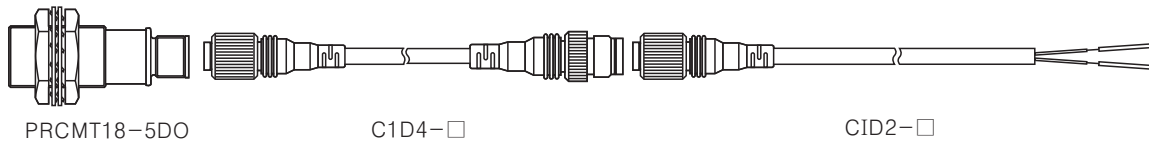
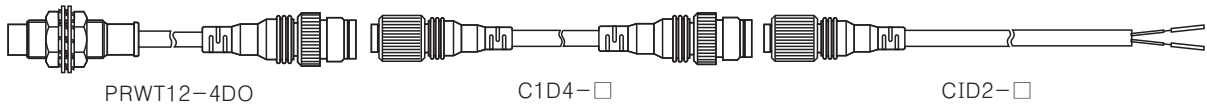
● Connector cable(Socket type)



● Connector cable(Plug type)



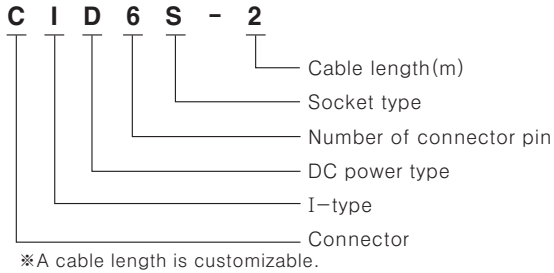
● Connector connection cable(Socket-Plug type)



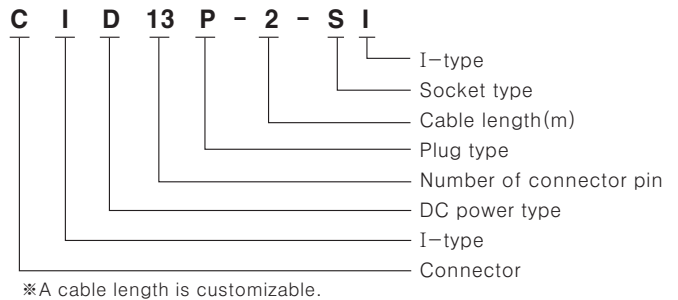
Encoder connector cable / Connector connection cable

Ordering information

◎Connector cable(Socket type)



◎Connector connection cable(Socket-Plug type)

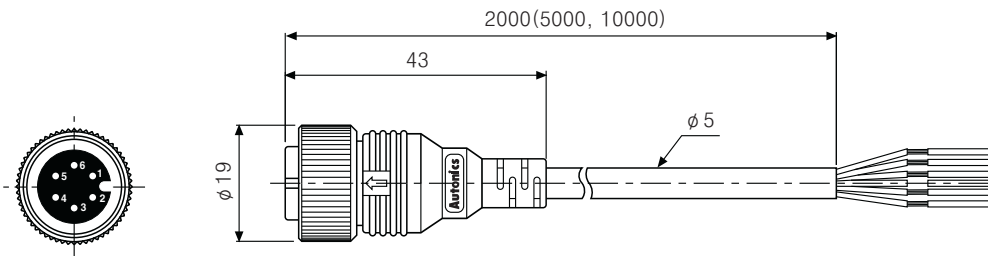


Dimensions

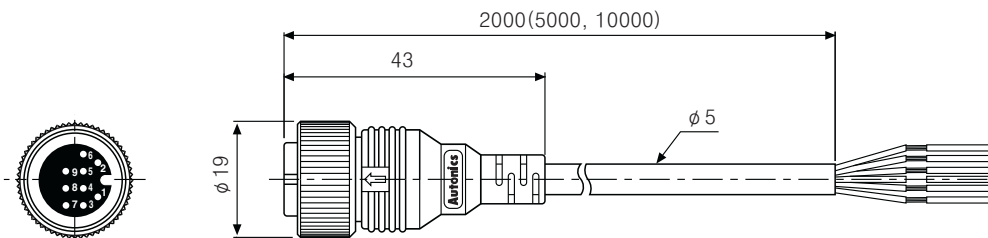
(Unit:mm)

◎Connector cable(Socket type)

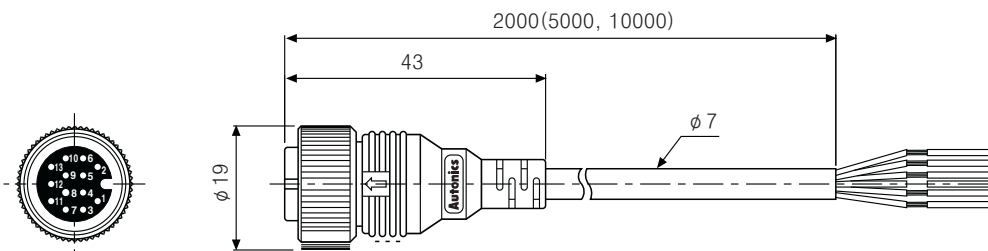
●CID6S-2, CID6S-5, CID6S-10 (Totem pole output / NPN open collector output / Voltage output)



●CID9S-2, CID9S-5, CID9S-10 (Line driver output)

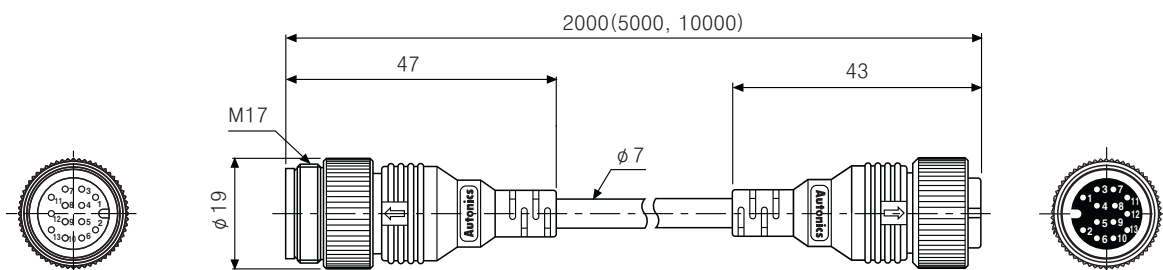


●CID13S-2, CID13S-5, CID13S-10



◎Connector connection cable(Socket-Plug type)

●CID13P-2-SI, CID13P-5-SI, CID13P-10-SI



(A)	Photo electric sensor
(B)	Fiber optic sensor
(C)	Door/Area sensor
(D)	Proximity sensor
(E)	Pressure sensor
(F)	Rotary encoder
(G)	Connector/Socket
(H)	Temp. controller
(I)	SSR/ Power controller
(J)	Counter
(K)	Timer
(L)	Panel meter
(M)	Tacho/ Speed/ Pulse meter
(N)	Display unit
(O)	Sensor controller
(P)	Switching power supply
(Q)	Stepping motor & Driver & Controller
(R)	Graphic/ Logic panel
(S)	Field network device
(T)	Production stoppage models & replacement

PT Series

Connection box

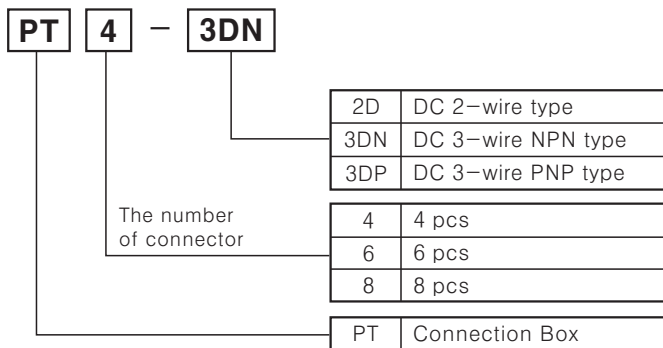
■ Features

- Red LED status indication
- Allows to drive multiple sensors by single power
- Realization of convenience for wiring or power line
- Waterproof structure IP67 (IEC standard) with waterproof cover, and waterproof structure IP66 with protection cover.



⚠ Please read "Caution for your safety" in operation manual before using.

■ Ordering information



■ Type

Appearances		Model
	DC 2-wire type	PT4-2D
	DC 3-wire type	PT4-3DN PT4-3DP
	DC 2-wire type	PT6-2D
	DC 3-wire type	PT6-3DN PT6-3DP
	DC 2-wire type	PT8-2D
	DC 3-wire type	PT8-3DN PT8-3DP

■ Specifications

Model	PT4-2D	PT4-3DN PT4-3DP	PT6-2D	PT6-3DN PT6-3DP	PT8-2D	PT8-3DN PT8-3DP
Power supply (Operating voltage)	12-24VDC (10-30VDC)					
Leakage current	0.5mA					
Connection life cycle	Min. 200 times					
Cable tensile strength	10kgf(98N) / 15sec.					
Insulation resistance	Min. 50MΩ (at 500VDC megger)					
Dielectric strength	1500VAC 50/60Hz for 1minute					
Vibration	1mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 2 hours					
Shock	500m/s ² (50G) in X, Y, Z direction for 3 times					
Indicator	Power indicator : Green, Operation indicator : Red					
Ambient temperature	-25 to 70°C (at non-freezing status)					
Storage temperature	-30 to 80°C (at non-freezing status)					
Ambient humidity	35 to 95%RH					
Protection	(★) IP66 (IEC standard)					
Unit weight	Approx. 630g		Approx. 690g		Approx. 745g	

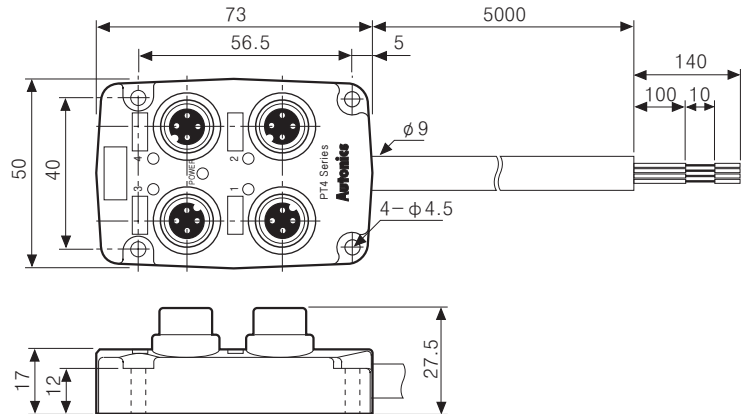
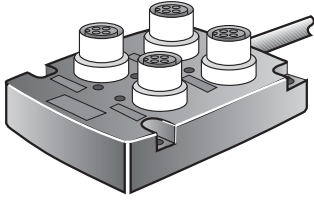
※ **(★)** When using a cover for waterproof : IP67 (IEC standard)

Connection Box

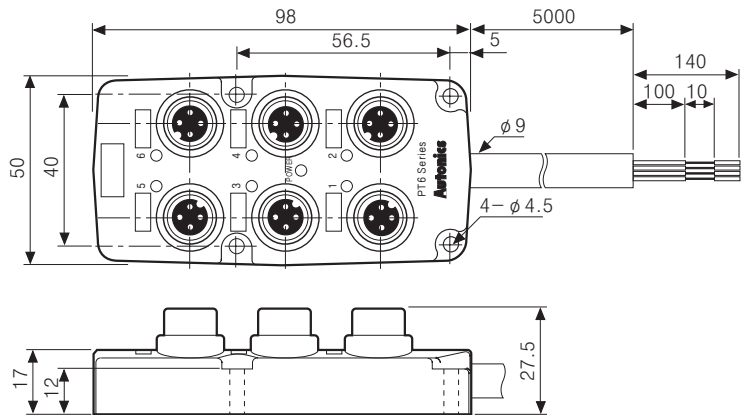
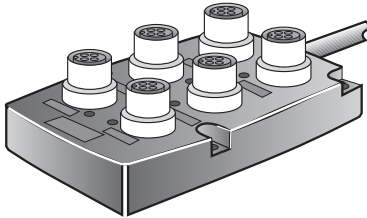
Dimensions

(Unit:mm)

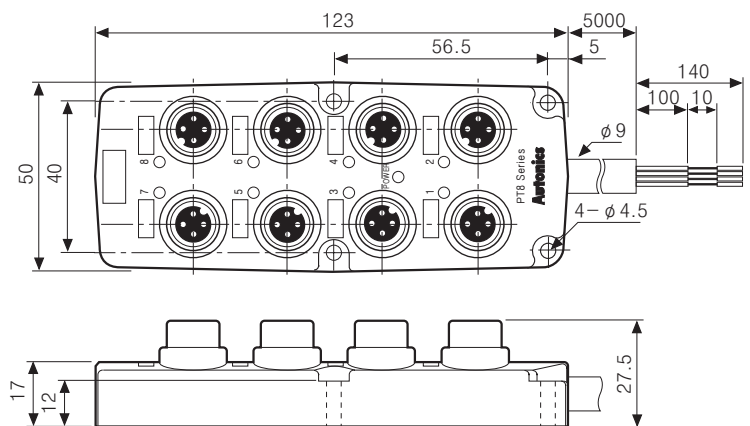
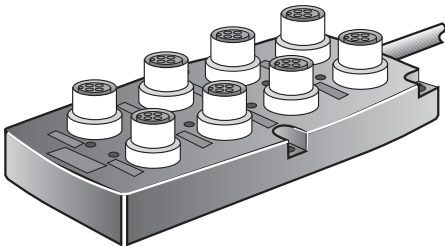
●PT4-□□



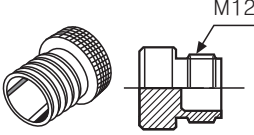
●PT6-□□



●PT8-□□

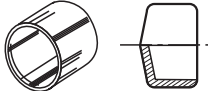


Waterproof cover

Form	Model	Applicable model
	P96-M12-1	<ul style="list-style-type: none"> ●PT4-□□□ ●PT6-□□□ ●PT8-□□□
<p>※ This protection cover is used for protecting unused connection hole from water or oil etc.</p> <p>※ If using waterproof cover, IP67 is available.</p> <p>※ Please tighten it.</p>		

※ Waterproof cover is sold separately.

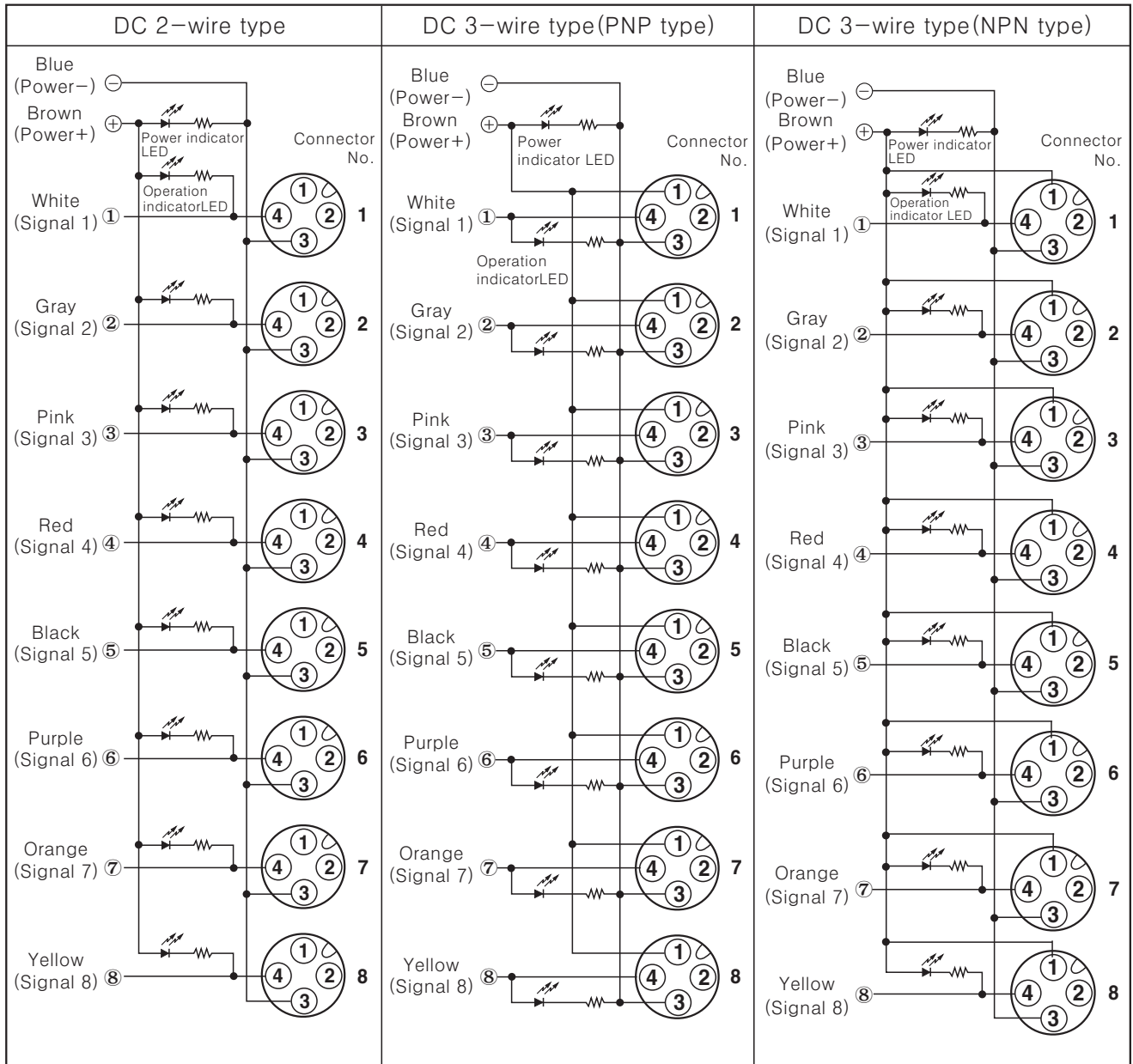
Protection cover

Form	Applicable model
	<ul style="list-style-type: none"> ●PT4-□□□ ●PT6-□□□ ●PT8-□□□
<p>※ This protection cover is used for protecting unused connection hole from dust or particle etc. (IP67 is not available)</p> <p>※ Please push it into hole.</p>	

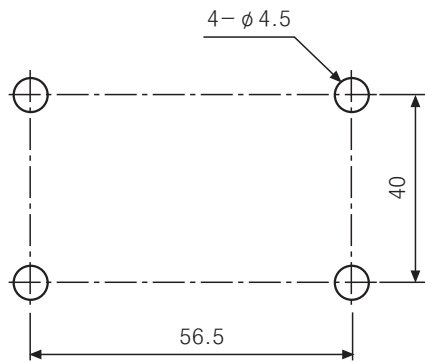
- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller
- (I) SSR/Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/Speed/Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement

PT Series

Connections



Mounting dimensions



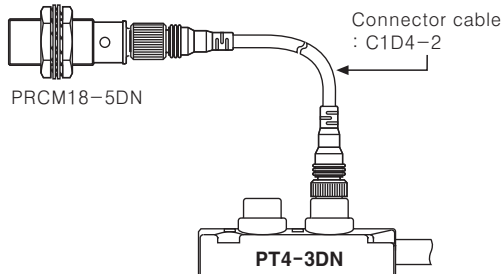
*installation 4 / 6 / 8 holes are same.

(Unit:mm)

■ Connections

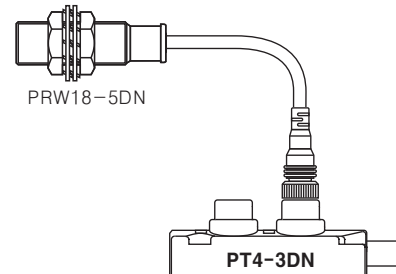
● Connector type (PRCM Series)

Connection cable should be used for connector type of proximity sensor.



● Outgoing cable type (PRW Series)

Outgoing cable type can be connected directly but when the installation distance is longer, please use connection cable.



■ Applicable models

Connection box	Applicable proximity sensor		Connection
PT□-2D	DC 2-wire type	PRDCMT18-7DO/DC, PRDCMT18-14DO/DC, PRDCMT30-15DO/DC, PRDCMT30-25DO/DC, PRDCMLT18-14DO/DC, PRDCMLT18-7DO/DC, PRDCMLT30-15DO/DC, PRDCMLT30-25DO/DC, PRCMT12-2DO/DC, PRCMT12-4DO/DC, PRCMT18-5DO/DC, PRCMT18-8DO/DC, PRCMT30-10DO/DC, PRCMT30-15DO/DC	Connection cable
		PRDAWT18-7DO/7DC, PRDAWT30-15DO/DC, PRDWT12-4DO/DC, PRDWT12-8DO/DC, PRDWT18-7DO/DC, PRDWT18-14DO/DC, PRDWT30-15DO/DC, PRDWT30-25DO/DC, PRAWT12-2DO/DC, PRAWT18-5DO/DC, PRAWT30-10DO/DC, PRWT12-2DO/DC, PRWT12-4DO/DC, PRWT18-5DO/DC, PRWT18-8DO/DC, PRWT30-10DO/DC, PRWT30-15DO/DC	Direct connection Connection cable
PT□-3DN	DC 3-wire type (NPN type)	PRDCM12-4DN/DN2, PRDCM12-8DN/DN2, PRDCM18-7DN/DN2, PRDCM18-14DN/DN2, PRDCM30-15DN/DN2, PRDCM30-25DN/DN2, PRDCML12-4DN/DN2, PRDCML12-8DN/DN2, PRDCML18-7DN/DN2, PRDCML18-14DN/DN2, PRDCML30-15DN/DN2, PRDCML30-25DN/DN2, PRCM12-2DN/DN2, PRCM12-4DN/DN2, PRCM18-5DN/DN2, PRCM18-8DN/DN2, PRCM30-10DN/DN2, PRCM30-15DN/DN2, PRCML18-5DN/DN2, PRCML18-8DN/DN2, PRCML30-10DN/DN2, PRCML30-15DN/DN2,	Connection cable
		PRDW12-4DN/DN2, PRDW12-8DN/DN2, PRDW18-7DN/DN2, PRDW18-14DN/DN2, PRDW30-15DN/DN2, PRDW30-25DN/DN2, PRDWL18-7DN/DN2, PRDWL18-14DN/DN2, PRDWL30-15DN/DN2, PRDWL30-25DN/DN2, PRW12-2DN/DN2, PRW12-4DN/DN2, PRW18-5DN/DN2, PRW18-8DN/DN2, PRW30-10DN/DN2, PRW30-15DN/DN2, PRWL18-5DN/DN2, PRWL18-8DN/DN2, PRWL30-10DN/DN2, PRWL30-15DN/DN2,	Direct connection Connection cable
PT□-3DP	DC 3-wire type (PNP type)	PRDCM12-4DP/DP2, PRDCM12-8DP/DP2, PRDCM18-7DP/DP2, PRDCM18-14DP/DP2, PRDCM30-15DP/DP2, PRDCM30-25DP/DP2, PRDCML12-4DP/DP2, PRDCML12-8DP/DP2, PRDCML18-7DP/DP2, PRDCML18-14DP/DP2, PRDCML30-15DP/DP2, PRDCML30-25DP/DP2, PRCM12-2DP/DP2, PRCM12-4DP/DP2, PRCM18-5DP/DP2, PRCM18-8DP/DP2, PRCM30-10DP/DP2, PRCM30-15DP/DP2, PRCML18-5DP/DP2, PRCML18-8DP/DP2, PRCML30-10DP/DP2, PRCML30-15DP/DP2	Connection cable
		PRDW12-4DP, PRDW12-8DP, PRDW18-7DP, PRDW18-14DP, PRDW30-15DP, PRDW30-25DP, PRDWL12-4DP, PRDWL12-8DP, PRDWL18-7DP, PRDWL18-14DP, PRDWL30-15DP, PRDWL30-25DP, PRW12-2DP/DP2, PRW12-4DP/DP2, PRW18-5DP/DP2, PRW18-8DP/DP2, PRW30-10DP/DP2, PRW30-15DP/DP2, PRWL18-5DP/DP2, PRWL18-8DP/DP2, PRWL30-10DP/DP2, PRWL30-15DP/DP2, PRDW12-4DP/DP2, PRDW12-8DP/DP2, PRDW18-7DP/DP2, PRDW18-14DP/DP2, PRDW30-15DP/DP2, PRDW30-25DP/DP2, PRDWL18-7DP/DP2, PRDWL18-14DP/DP2, PRDWL30-15DP/DP2, PRDWL30-25DP/DP2	Direct connection Connection cable

※ It is enable to use general outgoing cable type of proximity sensor with connection box, if plug type connector cable is used.

■ Proper usage

1. Connection box is only for DC power, do not use with AC power.
2. Be careful to use DC 2-wire and DC 3-wire type separately and NPN / PNP types are separated in DC 3-wire type.
3. Please be sure of correct wiring of power cable (Blue : -, Brown : +).
4. Green LED will not turn on when the power polarity is reversed.
5. Please connect signal line following the diagram and load must be installed when operating sensor.
6. Please check red LED when operating sensor.
7. Please use protection cover or waterproof cover (P96-M12-1) on unused connectors.

※ The protection cover is attached on connection part of the box. Please be careful to keep this cover.

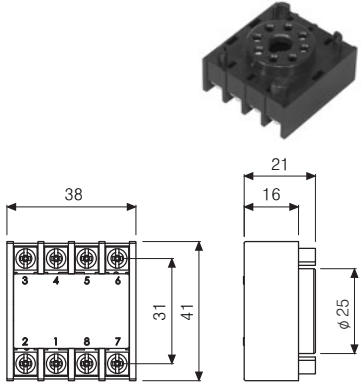
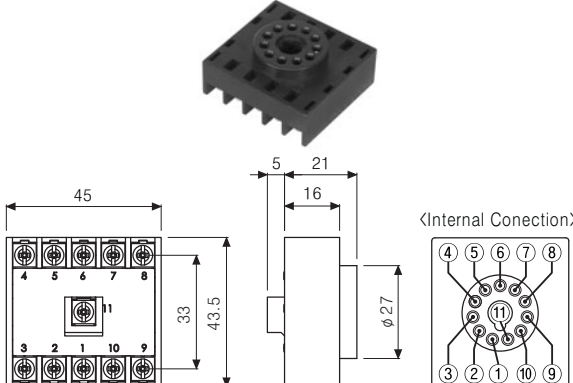
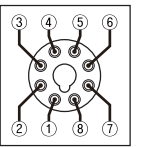
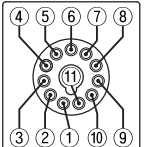
※ Waterproof cover (P96-M12-1) is sold separately.

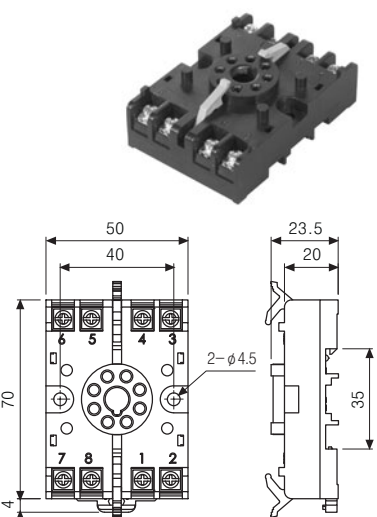
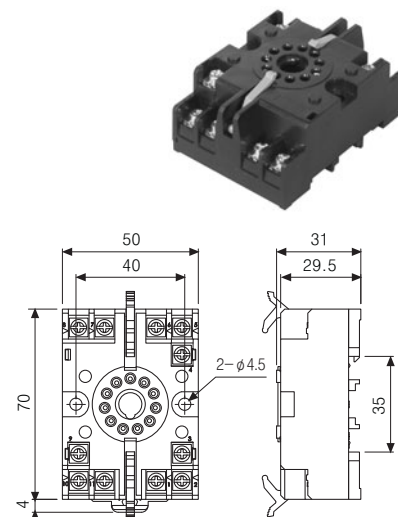
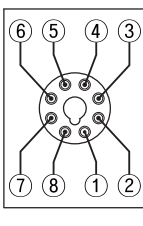
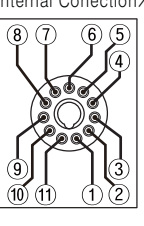
(A) Photo electric sensor
(B) Fiber optic sensor
(C) Door/Area sensor
(D) Proximity sensor
(E) Pressure sensor
(F) Rotary encoder
(G) Connector/Socket
(H) Temp. controller
(I) SSR/Power controller
(J) Counter
(K) Timer
(L) Panel meter
(M) Tacho/Speed/Pulse meter
(N) Display unit
(O) Sensor controller
(P) Switching power supply
(Q) Stepping motor & Driver & Controller
(R) Graphic/Logic panel
(S) Field network device
(T) Production stoppage models & replacement

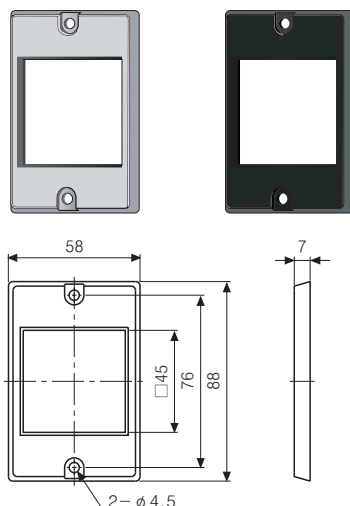
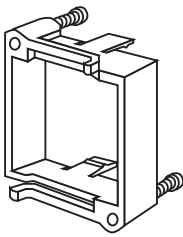
Controller Cylindrical Type Socket

■ Cylindrical type socket (8 Pin, 11 Pin)

(Unit:mm)

Model	Socket	
	PG-08	PG-11
Appearances & Dimensions	 <p>PG-08</p>	 <p>PG-11</p>
	<p><Internal Connection></p> 	<p><Internal Connection></p> 

Model	Socket	
	PS-08	PS-11
Appearances & Dimensions	 <p>PS-08</p>	 <p>PS-11</p>
	<p><Internal Connection></p> 	<p><Internal Connection></p> 

Model	Adaptor	Bracket
	Beige(FGB48-GR) / Black(FGB48-BL)	PGB48-W
Appearances & Dimensions		 <p>※ATE Series Bracket is sold separately.</p>