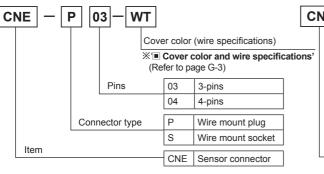
Sensor Connector

Features

- Wire mount plug/socket
- Compact and highly reliable of pressure welding connector
- Enables to connect wires as wire mount plug/socket
- Different 9 colors of cover by wire diameter
- Visible wiring status with translucent cover
- Board mount socket
- Enables to insert 4EA, 2EA, or 1EA wire mount plugs
- · Contact placed in mold against electric shock and short-circuit
- Mountable on board closely
- Commons
- Significantly reduces connection time and effort
- Wide products range for various wires
- Compact and high density installation with 2 mm of contact pitch
- Compliance with e-CON
- Max. 3 A of current capacity by a pin

Ordering Information



IE – E	3 2	2 0	3		
			Pins	03	3-pins
		Lines		04	4-pins
				No-mark	1-line
		Lines		2	2-line
				4	4-line
	Conn	ector t	уре	В	Board mount socket
Item				CNE	Sensor connector

CE

Specifications

Туре		Wire mount plug	Wire mount socket	Board mount socket		
Model		CNE-P-	CNE-S	CNE-B		
Application	Connector	Board mount socket/Wire mount socket	Wire mount plug	Wire mount plug		
	Cable	AWG30 to 20 (Ø0.6mm to Ø2.0mm				
	РСВ		Fender plated-through hole, Hole dia.: 1.0mm, PCB thickness : 1.0 to 2.2mm			
Rated volta	ge	Max. 250VAC/DC				
Rated current Max. 3.0A						
Temperature		-20 to 85°C (applying 1A), -20 to 75°C (applying 2A), -20 to 60°C (applying 3A)				
Humidity		40 to 80%RH				
Terminal ret	tention	Min. 1.4kgf				
Pressure strength AWG30: Min. 0.5kgf AWG24 : Min. 0.8kgf AWG20 : Min. 1.0		: Min. 1.0kgf				
Extraction		Min. 0.49N (50gf)/pin				
Insertion	n Max. 1.96N (200gf)/pin					
Dielectric st	strength 1,000VAC for 1min. (between terminals)					
Insulated re	ed resistance Min. 1,000MΩ (between terminals)					
Contact res	istance	Max. 0.05Ω (short-current : 1mA, m	ax. open voltage : 20mV)			
Material Body : PC/ABS (UL94V-0), Termir Case : PC (UL94-V0)		Ι: C5210 (Gold 0.2μm),	Body : PC/ABS (UL94-V0), Terminal : C5210 (Gold 0.2µm)			



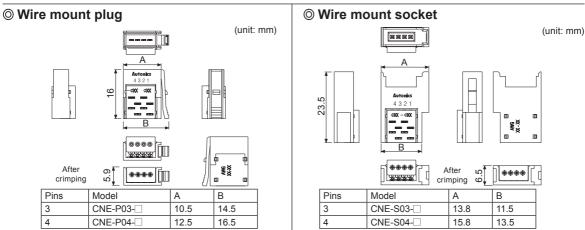
Sensor Connector

Cover Color And Wire Specifications

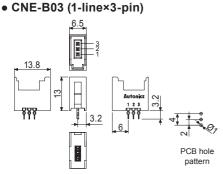
0 sis	4	Applied wire specifications		
3-pin	4-pin	Nominal cross section area (mm ²)	Cover diameter (mm)	
CNE03-WT	CNE-D04-WT		Ø0.6 to 0.8	
CNE-03-YG	CNE-04-YG		Ø0.8 to 1.0	
CNE-03-VT	CNE-D04-VT	(AW030 10 20)	Ø1.0 to 1.2	
CNE-03-RE	CNE-D04-RE		Ø0.8 to 1.0	
CNE-03-YW	CNE04-YW		Ø1.0 to 1.2	
CNE-03-OG	CNE-D04-OG		Ø1.2 to 1.6	
CNE-03-GN	CNE-D04-GN		Ø1.0 to 1.2	
CNE-03-BL	CNE-04-BL		Ø1.2 to 1.6	
CNE03-GY	CNE04-GY	(////022 10 20)	Ø1.6 to 2.0	
	CNE-03-YG CNE-03-VT CNE-03-RE CNE-03-YW CNE-03-OG CNE-03-GN CNE-03-GN CNE-03-BL	CNE03-WT CNE04-WT CNE03-YG CNE04-YG CNE03-YT CNE04-VT CNE03-RE CNE04-RE CNE03-YW CNE04-YW CNE03-G CNE04-OG CNE03-GN CNE04-GN CNE03-BL CNE04-BL	3-pin 4-pin Nominal cross section area (mm²) CNE03-WT CNE04-WT 0.05 to 0.08 (AWG30 to 28) CNE03-VT CNE04-VT 0.05 to 0.28 (AWG30 to 28) CNE03-RE CNE04-RE 0.13 to 0.21 (AWG26 to 24) CNE03-GG CNE04-OG 0.32 to 0.5 (AWG22 to 20)	

※□ : P (Wire mount plug), S (Wire mount socket)

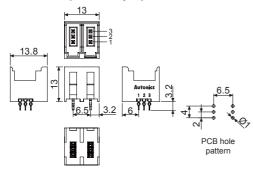
Dimensions

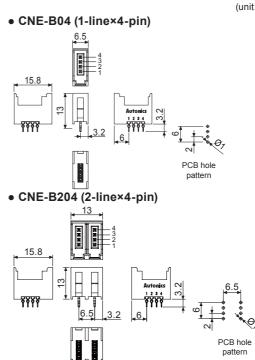


O Board mount socket



CNE-B203 (2-line×3-pin)





(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encode

(G) onnectors

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(unit: mm)

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

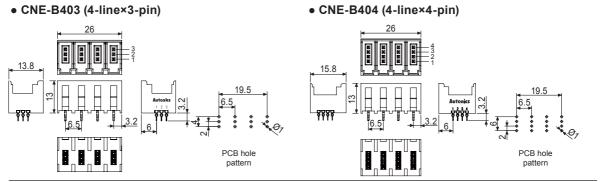
(S) Field Network Devices

(T) Software

Autonics

O Board mount socket

(unit: mm)



Wiring Sensor Connector

1) Select connector.

- Check the wire specifications (conductor section, cover diameter).
- Select the proper color of sensor connector(model) by referring to the below table.

			Applied wire specifications	
Cover color	Wire mount plug	Wire mount socket	Nominal cross section area (mm ²)	Cover diameter (mm)
Transparent (WT)	CNE-P□ - WT	CNE-S□-WT		Ø0.6 to 0.8
Yellow-Green (YG)	CNE-P - YG	CNE-S -YG	0.05 to 0.08 (AWG30 to 28)	Ø0.8 to 1.0
Violet (VT)	CNE-PO-VT	CNE-S	(, 000 to 20)	Ø1.0 to 1.2
Red (RE)	CNE-P□-RE	CNE-S		Ø0.8 to 1.0
Yellow (YW)	CNE-P□-YW	CNE-S -YW	0.13 to 0.21 (AWG26 to 24)	Ø1.0 to 1.2
Orange (OG)	CNE-P - OG	CNE-S□ - OG	(, 0 = 0 (0 = 1))	Ø1.2 to 1.6
Green (GN)	CNE-P□-GN	CNE-S□-GN		Ø1.0 to 1.2
Blue (BL)	CNE-P□-BL	CNE-S□-BL	0.32 to 0.5 (AWG22 to 20)	Ø1.2 to 1.6
Gray (GY)	CNE-P - GY	CNE-S□-GY	,	Ø1.6 to 2.0

%□: Number of pins (03: 3-pin, 04: 4-pin)

**The proper sensor connector may be different by conductor of wire.
*Cover diameter of applied wire at connector (at translucent part) and AWG number of body backside are marked.

- 2) Insert the wires.
- Check the pin numbers and insert the wires into the according holes.
- Check that the wires are fully inserted to the end of the cover.

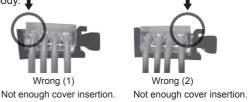


- 3) Crimping
- Insert the cover into the body with a jig (press fitting tool, etc).
- Apply pressure with the jig from the side, as shown in the figure below.





- 4) Check the cover.
- Check to make sure that the cover is level with the body and that there is no space between the cover and the body.



※Press the part of arrows again.

Autonics