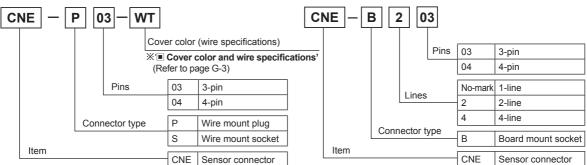
Sensor Connector

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 4, 2, or 1 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 2mm of contact pitch
- Max. 3A of current capacity by a pin



Ordering Information



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	AWG30-20 (Ø0.6mm to Ø2.0mm)	_				
	PCB	_	Fender plated-through hole, Hole dia.: 1.0mm, PCB thickness: 1.0 to 2.2mm				
Rated voltage		Max. 250VAC~/DC==					
Rated current		Max. 3 0A					
Environ- ment	Ambient temp.	-20 to 85°C (applying 1A), -20 to 75°C (applying 2A), -20 to 60°C (applying 3A)					
	Ambient humi.	40 to 80%RH					
Terminal retention		Min. 1.4kgf					
Pressure strength		● AWG30: Min. 0.5kgf					
Extraction		Min. 0.49N (50gf)/pin					
Insertion		Max. 1 96N (200gf)/pin					
Dielectric strength		1,000VAC for 1min (between terminals)					
Insulated resistance		Over 1,000MΩ (between terminals)					
Contact res	istance	Max. 0 05Ω (short-current: 1mA, max.	open voltage: 20mV)				
Material		Body: PC/ABS (UL94V-0), Terminal: C5210 (gold 0.2μm), Case: PC (UL94-V0)		Body: PC/ABS (UL94-V0), Terminal: C5210 (gold 0.2µm)			

G-2 Autonics

Sensor Connector

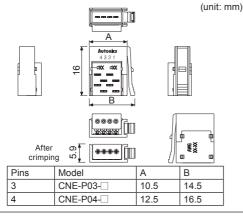
■ Cover Color and Wire Specifications

Cover color	3-pin	4 = i=	Applied wire specifications	
Cover color		4-pin	Nominal cross section area (mm²)	Cover diameter (mm)
Transparent (WT)	CNE-□03-WT	CNE-□04-WT	0.05 to 0.08 (AWG30 to 28)	Ø0.6 to 0 8
Yellow-Green (YG)	CNE-□03-YG	CNE-□04-YG		Ø0.8 to 1 0
Violet (VT)	CNE-□03-VT	CNE-□04-VT	(AVVG30 to 20)	Ø1.0 to 1 2
Red (RE)	CNE-□03-RE	CNE-□04-RE	0.13 to 0.21 (AWG26 to 24)	Ø0.8 to 1 0
Yellow (YW)	CNE-□03-YW	CNE-□04-YW		Ø1.0 to 1 2
Orange (OG)	CNE-□03-OG	CNE-□04-OG	(AVVO20 to 24)	Ø1.2 to 1.6
Green (GN)	CNE-□03-GN	CNE-□04-GN		Ø1.0 to 1 2
Blue (BL)	CNE-□03-BL	CNE-□04-BL	0.32 to 0.5 (AWG22 to 20)	Ø1.2 to 1.6
Gray (GY)	CNE-□03-GY	CNE-□04-GY	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ø1.6 to 2 0

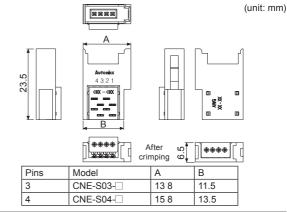
※□: P (wire mount plug), S (wire mount socket)

Dimensions

Wire mount plug

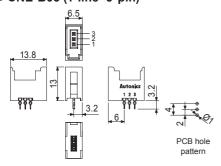




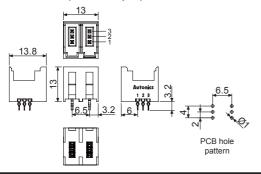


Board mount socket

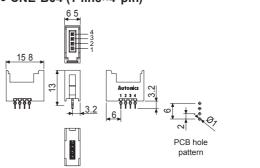
• CNE-B03 (1-line×3-pin)



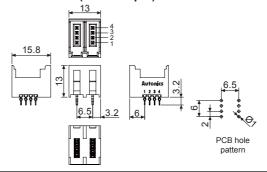
• CNE-B203 (2-line×3-pin)



• CNE-B04 (1-line×4-pin)



CNE-B204 (2-line×4-pin)



(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(I) SSRs / Power Controllers

(J) Counters

(N) Display Units

(unit: mm)

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

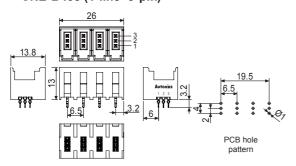
(R) Graphic/ Logic Panels

G-3 **Autonics**

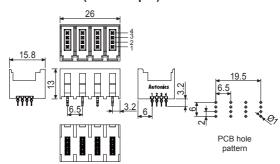
Dimensions

© Board mount socket

• CNE-B403 (4-line×3-pin)



• CNE-B404 (4-line×4-pin)



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.

	Wire mount plug	Wire mount socket	Applied wire specifications	
Cover color			Nominal cross section area (mm²)	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	0.05 to 0.08 (AWG30 to 28)	Ø0.8 to 1.0
Violet (VT)	CNE-P□=VT	CNE-S□-VT	(117303 to 20)	Ø1.0 to 1.2
Red (RE)	CNE-P□=RE	CNE-S□-RE		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	7 (17 5 25 16 2 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

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

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.





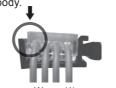
(unit: mm)

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.





Wrong (1)
Not enough cover insertion.

Wrong (2) Not enough cover insertion.

XPress the part of arrows again.

G-4 Autonics

XThe 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.