Autonics

PROXIMITY SENSOR

CONNECTION BOX

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Thank you very much for selecting Autonics products. For your safety, please read the following before using.

Caution for your safety

**Please keep these instructions and review them before using this unit.

↑ Warning Serious injury may result if instructions are not followed.

↑ Caution Product may be damaged, or injury may result if instructions are not followed.

XThe following is an explanation of the symbols used in the operation manual. \triangle caution:Injury or danger may occur under special conditions.

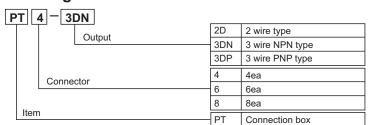
⚠ Warning

1. In case of using this unit with machinery(Ex: nuclear power control, medical egupment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device. It may cause a fire, human injury or damage to property.

⚠ Caution

- 1. Do not use this unit in place where there is flammable, explosive gas, chemical or strong alkalis, acids.
- It may cause a fire or explosion
- 2. Do not impact on this unit.
- It may result in malfunction or damage to the product.
- 3. Do not use this connection box with AC power, this is DC power only.
- It may result in serious damage to the product.
- 4. Please aviod wrong wire connection. (Blue: -, Brown: +)

Ordering information



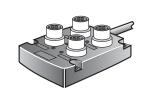
Specifications

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	Max. 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*(50G) X, Y, Z direction for 3 times						
Indicator	Power indicator:Green, Operating indicator:Red						
Ambient temperature	-25 to 70°C, Storage: -30 to 80°C						
Ambient humidity	35 to 95%RH, Storage: 35 to 95%RH						
Protection	IP66(IEC specification) ^{×1}						
Material	Case: PC, General cable(gray): Polyvinyl chloride(PVC)						
Weight	Approx. 630g		Approx. 690g		Approx. 745g		

- *The above specification are changeable without notice anytime

Dimension

● PT4-□□

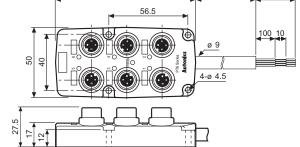


(Conductor cross section: 0.3mm², Insulato diameter: ø 1.67)

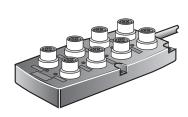


(Conductor cross section: 0.3mm², Insulato diameter: ø 1.67)

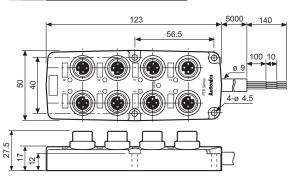
● PT8-□□



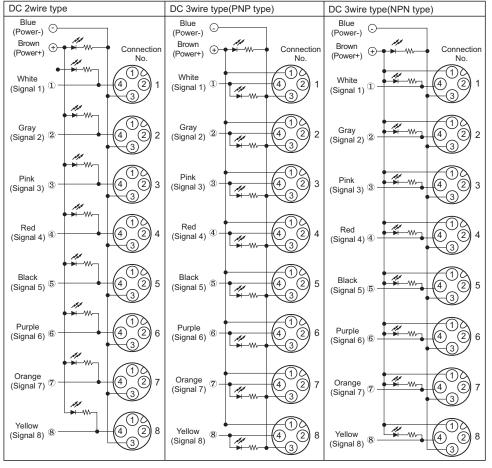
5000



(Conductor cross section: 0.3mm², Insulato diameter: ø 1.67)



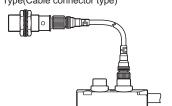
Connection



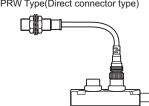
Connection form

(Unit:mm)

PRCM Type(Cable connector type)



PRW Type(Direct connector type)



Input sensor

Connection Box	Connector type	Transiation Cable		
PT= -2D	DC 2-wire type	PRCMT12-2/4DO, DC PRCMT18-5/8DO, DC PRCMT30-10/15DO, DC	PRDCMT12-4/8DO,DC PRDCMT18-7/14DO,DC PRDCMT30-15/25DO,DC	Connection cable
		PRWT12-2/4DO, DC PRWT18-5/8DO, DC PRWT30-10/15DO, DC	PRDWT12-4/8DO,DC PRDWT18-7/14DO,DC PRDWT30-15/25DO,DC	Direct connection Connection cable
PT□ -3DN ty	DC 3-wire type (NPN type)	PRCM12-2/4DN, DN2 PRCM18-5/8DN, DN2 PRCM30-10/15DN, DN2 PRCML18-5/8DN, DN2 PRCML30-10/15DN, DN2	PRDCM12-4/8DN,DN2 PRDCM18-7/14DN,DN2 PRDCM30-15/25DN,DN2 PRDCML12-4/8DN,DN2 PRDCML18-7/14DN,DN2 PRDCML30-15/25DN,DN2	Connection cable
		PRW12-2/4DN, DN2 PRW18-5/8DN, DN2 PRW30-10/15DN, DN2 PRWL18-5/8DN, DN2 PRWL30-10/15DN, DN2	PRDW12-4/8DN,DN2 PRDW18-7/14DN,DN2 PRDW30-15/25DN,DN2 PRDWL12-4/8DN,DN2 PRDWL18-7/14DN,DN2 PRDWL30-15/25DN,DN2	Direct connection Connection cable
PT= -3DP typ	DC 3-wire type (PNP type)	PRCM12-2/4DP, DP2 PRCM18-5/8DP, DP2 PRCM30-10/15DP, DP2 PRCML18-5/8DP, DP2 PRCML30-10/15DP, DP2	PRDCM12-4/8DP,DP2 PRDCM18-7/14DP,DP2 PRDCM30-15/25DP,DP2 PRDCML12-4/8DP,DP2 PRDCML18-7/14DP,DP2 PRDCML30-15/25DP,DP2	Connection cable
		PRW12-2/4DP, DP2 PRW18-5/8DP, DP2 PRW30-10/15DP, DP2 PRWL18-5/8DP, DP2 PRWL30-10/15DP, DP2	PRDW12-4/8DP,DP2 PRDW18-7/14DP,DP2 PRDW30-15/25DP,DP2 PRDWL12-4/8DP,DP2 PRDWL18-7/14DP,DP2 PRDWL30-15/25DP,DP2	Direct connection Connection cable

XIt is able to use lead type proximity sensor with connection box, if use plug type connector cable.

Caution for using

- 1. This equipment shall not be used outdoors and beyond specification rating of temperature range.
- 2. Do not load over 10Kgf(98N) on cable.
- 3. Do not use the same conduit with cord of this unit and electric power line and power line. Also avoid the same connection
- 4. Tighten strength of installing bolts should be under 15kgf cm.
- 5. If close transceiver to proximity sensor or wire connection, it may cause malfunction.
- 6. When take out the connector from box, please cut off the power.
- 7. Please tighten fixing plumb firmly by hand. It can be loosened by vibration and protection might not be maintained. (Proper tightening strength: 4 to 5kgf cm)
- 8. It might cause malfunction, if particle of metal etc. inflow in to engaging.
- 9. Do not use this unit when external force loaded on contact block and connection of cover. It may cause loss of efficiency of protection. (IP65)
- 10. Do not use in place there are water or oil etc.
- 11. Main body is made by plastic, therefore do not put heavy load on this product.
- 12. Please avoid below environment.
- ①Lots of dust or high humidity
- ②Ammonia or sulfide gas 13. Please use 2 wire or 3 wire type(NPN, PNP) separately.
- 14. Green LED will not on if connect power line wrongly.
- 15. Please connect signal line following the diagram and load must be install when operating sensor.
- 16. Pleas check Red LED when operating sensor.
- 17. Please use protection cover or water-proof cover(P96-M12-1, sold sepately) for not using connector.
- XIt may cause malfunction if above instructions are not followed.

■ Timers ■ Display units

■ Photoelectric sensors

■ Fiber optic sensors

Pressure sensors

Sensor controllers ■ Graphic/Logic panels

Main products

- Proximity sensors
- Area sensors Door/Door side sensors
- Counters Rotary encoders

- Power controllers
- Panel meters
- Temperature controllers
- Tachometer/Pulse(Rate) meters
- Temperature/Humidity transducers
- Switching power supplies

- Stepping motors/drivers/motion controllers
- Field network devices
- Laser marking system(CO₂, Nd: YAG)
- Laser welding/soldering system

Autonics Corporation http://www.autonics.com

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