

Autonics

PROXIMITY SENSOR CONNECTION BOX

M A N U A L



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.
- ※ Please observe the cautions that follow;
- Warning** Serious injury may result if instructions are not followed.
- Caution** Product may be damaged, or injury may result if instructions are not followed.
- ※ The following is an explanation of the symbols used in the operation manual.
- Caution:** Injury or danger may occur under special conditions.

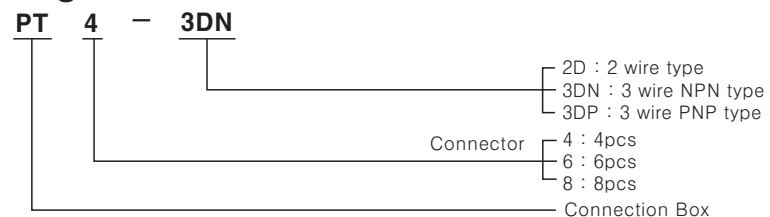
Warning

1. In case of using this unit with machineries(Nuclear power control, medical equipment vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it requires installing fail-safe device, or contact us for information on type required.
It may result in serious damage, fire or human injury.

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 avoid wrong wire connection. (Blue: -, Brown: +)**

Ordering information



Specifications

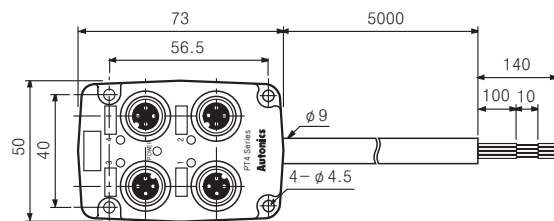
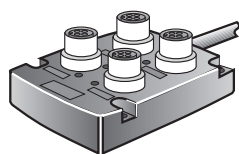
Model	PT4-2D	PT4-3DN PT4-3DP	PT6-2D	PT6-3DN PT6-3DP	PT8-2D	PT8-3DN PT8-3DP
Power supply (Operating voltage)	24VDC (15-30VDC)	12-24VDC (10-30VDC)	24VDC (15-30VDC)	12-24VDC (10-30VDC)	24VDC (15-30VDC)	12-24VDC (10-30VDC)
Connection life cycle	Min. 200 times					
Cable tensile strength	10kgf(98N) [15sec.]					
Insulation resistance	Min. 50MΩ(DC500V)					
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) X, Y, Z direction for 3 times					
Indicator	Power indicator:Green, Operating indicator:Red					
Ambient temperature	-25 to +70°C (Non-freezing condition)					
Storage temperature	-30 to +80°C (Non-freezing condition)					
Ambient humidity	35 to 95%RH					
Protection	IP66(IEC specification) (Note1)					
Weight	Approx. 630g		Approx. 690g		Approx. 745g	

※ (Note1)When use a cover for water-proof : IP67(IEC specification)

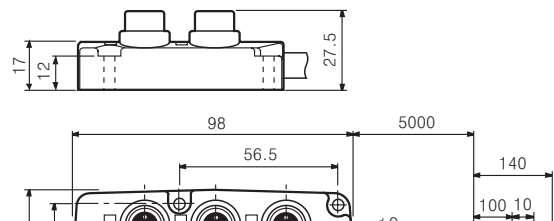
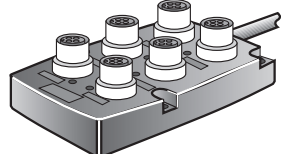
※ The above specification are changeable without notice anytime.

Dimensions

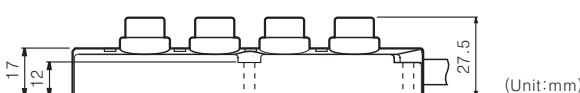
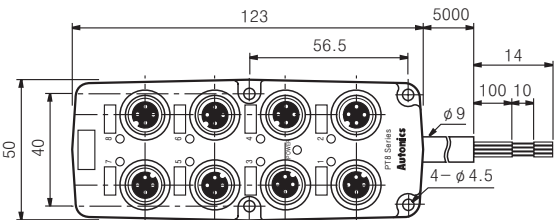
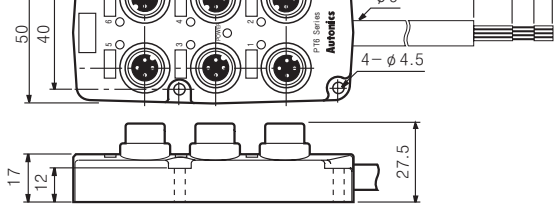
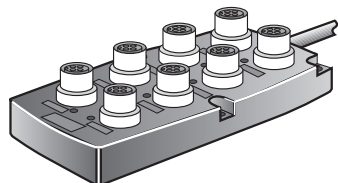
●PT4-□□



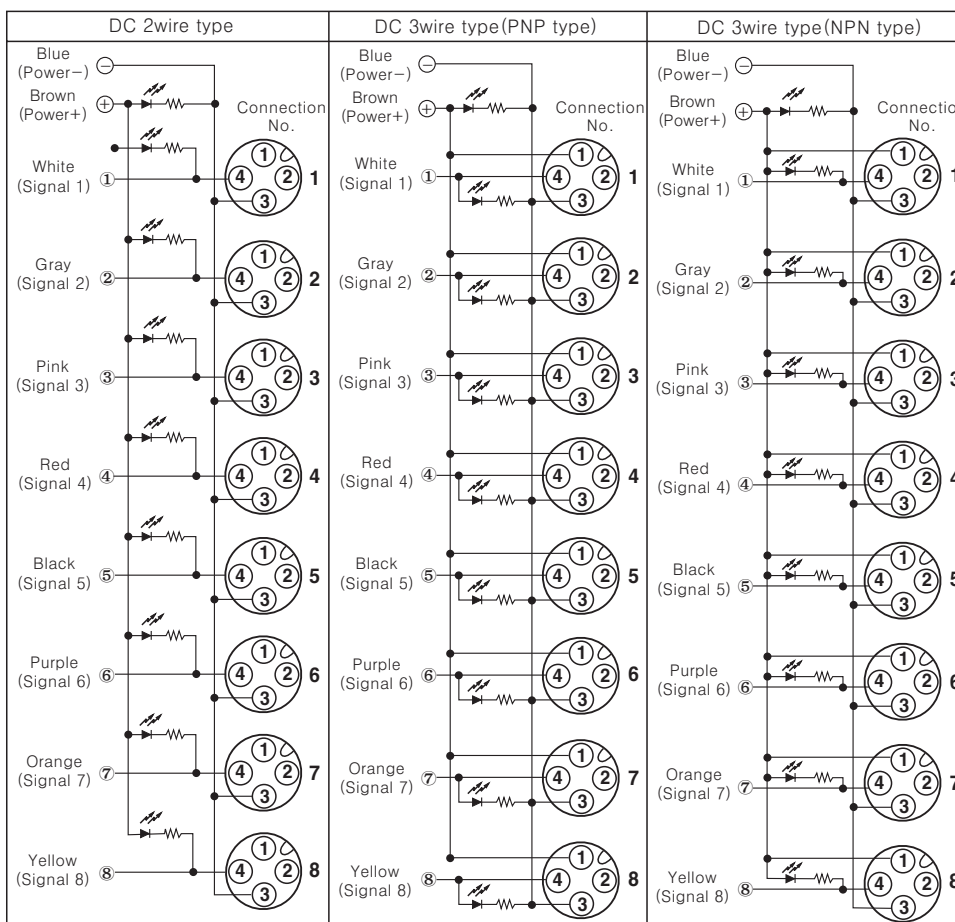
●PT6-□□



●PT8-□□

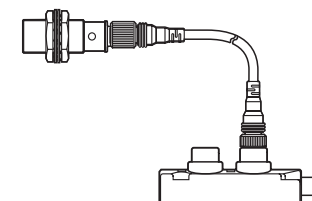


Connections

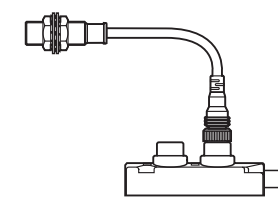


Connection form

●PRCM Type(Cable connector type)



●PRW Type(Direct connector type)



Input sensor

Connection Box	Connector type proximity sensor	Transiation Cable
PT□-2D	DC 2 wire type	
	Cable connector type	PRCMT12-2/4DO, DC PRCMT18-5/8DO, DC PRCMT30-10/15DO, DC
PT□-3DN	DC 3 wire type	
	Cable connector type	PRCM12-2/4DN, DN2 PRCM18-5/8DN, DN2 PRCM30-10/15DN, DN2 PRCML18-5/8DN, DN2 PRCML30-10/15DN, DN2
PT□-3DP	DC 3 wire type	
	Cable connector type	PRCM12-2/4DP, DP2 PRCM18-5/8DP, DP2 PRCM30-10/15DP, DP2 PRCML18-5/8DP, DP2 PRCML30-10/15DP, DP2
PT□-3DP	DC 3 wire type	
	Direct connector type	PRW12-2/4DP, DP2 PRW18-5/8DP, DP2 PRW30-10/15DP, DP2 PRWL18-5/8DP, DP2 PRWL30-10/15DP, DP2

※It 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 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 transeiver 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) for not using connector.
(※Water-proof cover is optional)

※ It may cause malfunction if above instructions are not followed.

Main products

- COUNTER
- TIMER
- TEMPERATURE CONTROLLER
- PANEL METER
- TACHO/LINE SPEED/PULSE METER
- DISPLAY UNIT
- PROXIMITY SENSOR
- PHOTOELECTRIC SENSOR
- FIBER OPTIC SENSOR
- PRESSURE SENSOR
- ROTARY ENCODER
- SENSOR CONTROLLER
- POWER CONTROLLER
- STEPPING MOTOR & DRIVER & CONTROLLER
- LASER MARKING SYSTEM(CO₂, Nd:YAG)

Autonics Corporation
http://www.autonics.com

Satisfiable Partner For Factory Automation

■HEADQUARTERS :
41-5, Yongdang-ri, Ulsang-eup, Yangsan-si, Gyeongnam, 626-847, Korea

■INTERNATIONAL SALES :
Bldg. 402 3rd Fl., Bucheon Techno Park, 193, Yakdae-dong, Wonmi-gu, Bucheon-si, Gyeonggi-do, 420-734, Korea
TEL:82-32-610-2730 / FAX:82-32-329-0728

■E-mail : sales@autonics.net