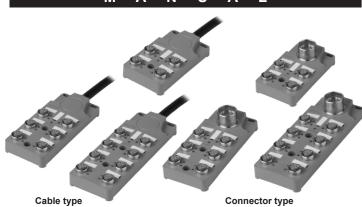
Autonics

Sensor Distribution Box (Cable type/Connector type)

PT SERIES

A N U



Thank you for choosing our Autonics product. Please read the following safety considerations before use.

Safety Considerations

XPlease observe all safety considerations for safe and proper product operation to avoid hazards. XSafety considerations are categorized as follows.

Marning Failure to follow these instructions may result in serious injury or death.

✓ **∆Caution** Failure to follow these instructions may result in personal injury or product damage.

The symbols used on the product and instruction manual represent the following

▲ symbol represents caution due to special circumstances in which hazards may occur.

⚠ Warning

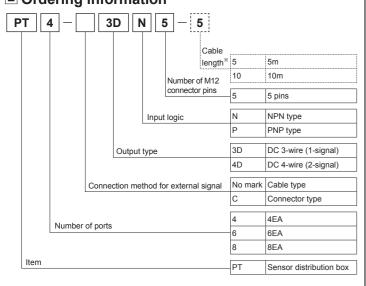
- 1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, fire, or economic loss.
- 2. Do not connect, repair, or inspect the unit while connected to a power source. Failure to follow this instruction may result in fire, or electric shock.
- 3. Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat, vibration, or impact may be present.

Failure to follow this instruction may result in fire, or explosion

⚠ Caution

- 1. Do not use the unit outdoors.
- Failure to follow this instruction may result in electric shock, or shorten the life cycle of the
- 2. Use the unit within the rated specifications.
- Failure to follow this instruction may result in shorten the life cycle of the unit, or fire. 3. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to
- Failure to follow this instruction may result in electric shock or product damage.
- 4. Keep dust and wire residue from flowing into the connectors. Failure to follow this instruction may result in fire, or product damage
- 5. Be sure connecting the power cable(brown: +, blue: -).

Ordering information



*Cable length is only for Cable type models

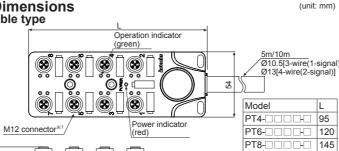
*The above specifications are subject to change and some models may be discontinued

Specifications

Model	Cable type	NPN type	PT4-3DN5-	PT4-4DN5-	PT6-3DN5-	PT6-4DN5-	PT8-3DN5-	PT8-4DN5-
		PNP type	PT4-3DP5-	PT4-4DP5-	PT6-3DP5-	PT6-4DP5-	PT8-3DP5-	PT8-4DP5-
	Connector type	NPN type	PT4-C3DN5	PT4-C4DN5	PT6-C3DN5	PT6-C4DN5	PT8-C3DN5	PT8-C4DN5
		PNP type	PT4-C3DP5	PT4-C4DP5	PT6-C3DP5	PT6-C4DP5	PT8-C3DP5	PT8-C4DP5
Port			4EA		6EA		8EA	
Output type ^{*1}		3-wire(1-signal)	4-wire(2-signal)	3-wire(1-signal)	4-wire(2-signal)	3-wire(1-signal)	4-wire(2-signal)	
Power supply			12-24VDC					
Rated current			2A (per signal), 4A (per port), 10A (total)					
Connection life cycle			Min. 200 times					
Insulation resistance		Min. 100MΩ(at 500VDC megger)						
Dielectric strength			500VAC 50/60Hz for 1 minute					
Vibration			3mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
Shock			500m/s²(approx. 50G) in each of X, Y, Z directions for 3 times					
Indicator			Power indicator: red, Operation indicator: green					
Envi	ron- Am	bient temp.	-25 to 75°C, storage: -30 to 80°C					
men	t Am	bient humi.	35 to 85%RH, storage: 35 to 85%RH					
Protection**2		IP67(IEC Standards/when mounting connector,waterproof cover) or IP52 (IEC Standards/when mounting protection cover)						
Material		Case: PBT(G15%), Name Plate: PC						
Weig	Ca typ	ble e ^{*4}	Approx. 1100g (Approx. 900g)	Approx. 1400g (Approx.1200g)	Approx. 1130g (Approx. 930g)	Approx. 1430g (Approx. 1230g)	Approx. 1160g (Approx. 960g)	Approx. 1460g (Approx. 1260g)
	Co typ	IIIICCIOI	Approx. 230g (Approx. 120g)	Approx. 235g (Approx. 125g)	Approx. 260g (Approx. 150g)	Approx. 265g (Approx. 155g)	Approx. 290g (Approx. 180g)	Approx. 295g (Approx. 185g)

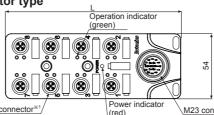
- X1: Connect the sensor to the proper output type.
- *2: This is not applicable when connectors and protection/waterproof covers are not mounted.
 *3: The weight is with packaging and the weight in parentheses is only unit weight.
 *4: The weights are for 5m cable.

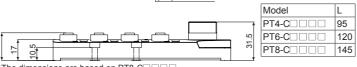
Dimensions Cable type



- ×1: When connecting L type connectors, connection direction may be different by the manufacturers of the connector.

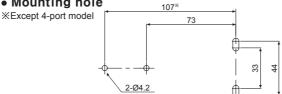
Connector type





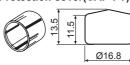
manufacturers of the connector.

Mounting hole



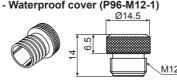
Sold separately

- Protection cover(CAP-PT)



- XThis protection cover is used for protecting connection holes from dust or particle, etc. Please push it
- XIf using protection covers, protection structure of the sensor distribution

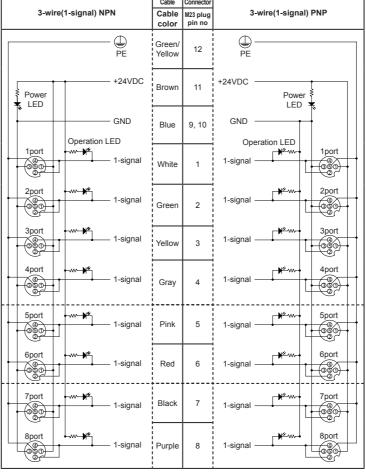
- Waterproof cover (P96-M12-1)



- XThis waterproof cover is used for protecting unused connection hole from water or oil etc. Please tighten it when applying to the
- If using waterproof covers, protection structure of the sensor distribution box is

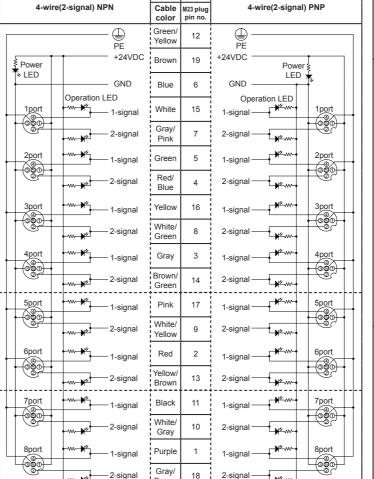
Connections

• 3-wire (1-signal)



Cable Connector

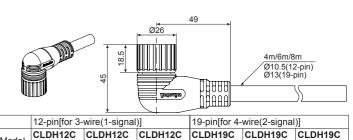
• 4-wire (2-signal)



M23 connector cable (sold separately)

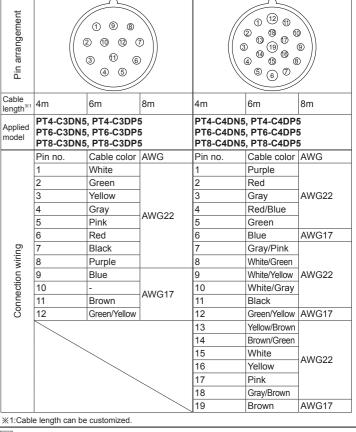
-080

-060



-060

(unit: mm)



Caution for using

1. This connection box is only for DC. Do not use this unit for AC.

- 2. Do not use the same conduit with cord of this unit and electric power line and power line. Also avoid the same connection.
- Tighten the screws and connector with the proper tightening strength. (M4 mounting screw: max. 1.2N·m / M12 Connector: 0.6 to 0.7N·m / M23 Connector: 2.0 to 2.5N·m)
- When tightening is bad, protection is not effective and it may loose by vibration.
- 4. If transceiver is close to wire connections, it may cause malfunction.
- 5. When take out the connector from the box, cut off the power.
- 6. It might cause malfunction, if particle of metal etc. inflow in to engaging.
- 7. Do not use this unit when external force loaded on contact block and connection of cover. It may cause loss of efficiency of protection.
- Do not use in place there are water or oil etc.
- 9. Main body is made by plastic, therefore do not put heavy load on this product. 10. Please avoid below environment for long-term storage.
- Lots of dust or high humidity ② Ammonia or sulfide gas
- 11. Use 3-wire NPN, PNP type and 4-wire NPN, PNP type separately. 12. Check the voltage variation range of power not to over the rated specifications for
- power input. 13. Please use protection cover(CAP-PT, sold separately) or water-proof
- cover(P96-M12-1, sold separately) for not using connector(M12 Socket). ※ Failure to follow these instructions may result in product damage.

Main products



- Pressure sensors Tachometer/Puls Rotary encoders
- witching mode power supp Control switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Graphic/Logic panels
- Laser marking system(Fiber, CO₂, Nd:YAG)
- Trusted Partner In Industrial Automation

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