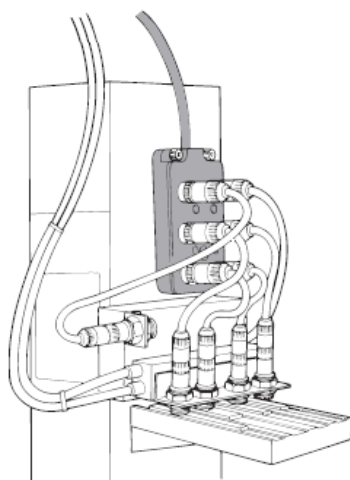


M12 Connector Terminal Boxes

XW3B

Ratings and Characteristics

Rated current	4 A/port (signal lines) 12 A/box (power lines)
Rated voltage	10 to 30 VDC
Contact resistance	40 M Ω max. (with 100 mA max., 20 mV max.) (See note 1.)
Insulation resistance	100 M Ω min. (at 500 VDC)
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.) (See note 2.)
Degree of protection	IP67 (IEC529)
Cable retention force	98 N/15 s
Insertion tolerance	200 times
Operating temperature	-25 to 70°C

Note: 1. The contact resistance of the Connector.
2. The dielectric strength of the Connector.

Materials and Finish

Item	Part name	Materials and finish
Connectors	Anchor	Brass/nickel plated
	Contacts	Brass/nickel base, 0.4- μ m gold plating
Cable	Cable	Sheath color: gray Core size: AWG18/AWG22 (See note.)
Case	Case	PBT resin (UL94V-0)/light gray
	Bushing	Rubber
	PCB	Glass-epoxy board
	Seal resin	Urethane resin

Note: The positive power supply, negative power supply, and ground lines are AWG18. Signal lines are AWG22.

Compatible Connectors ^{*1}

XS2G	Connector Plug Assemblies (crimping, soldering, or screw-on)
XS2W	Connectors on cable ends (Sockets or Plugs)
XS2H	Connectors on one cable end (Plugs)

Note: 1. Please refer to separate datasheet X073-E1-01 for these models.

Ordering Information

Sensor type and connections		3-wire DC NPN/2-wire 3-4	2-wire DC1-4/without polarity 3-4	3-wire DC PNP/2-wire DC 1-4
Actuator connections		Actuator connections 1-4	---	Actuator connections 3-4
No. of ports	Cable length (m)	Model	Model	Model
4	5	XW3B-P455-G11	XW3B-P452-G11	XW3B-P453-G11
6	5	XW3B-P655-G11	XW3B-P652-G11	XW3B-P653-G11
8	5	XW3B-P855-G11	XW3B-P852-G11	XW3B-P853-G11

Note: Here 1-4 and 3-4 are connector pin numbers.

Waterproof Cover (Sold Separately) XW2Z-12



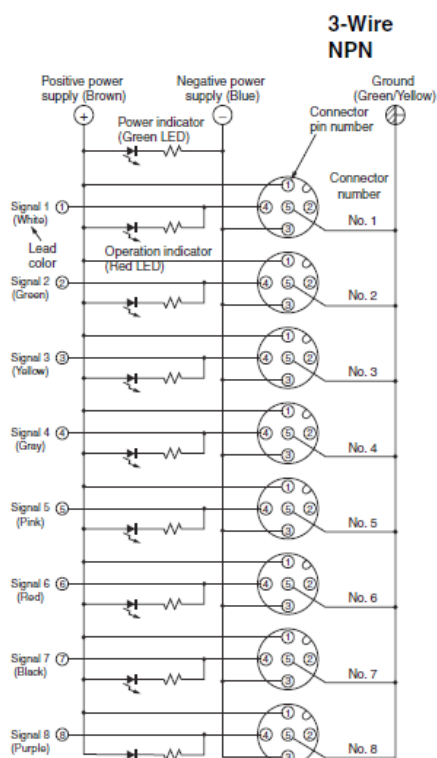
Model	Materials
XW2Z-12	Brass/nickel plated

Note: The XW3B/XW3A comes with a dust cover. Use the optional XW2Z-12 Waterproof Cover when an IP67 degree of protection is required.

Connection Diagram

Standard Japanese Specification

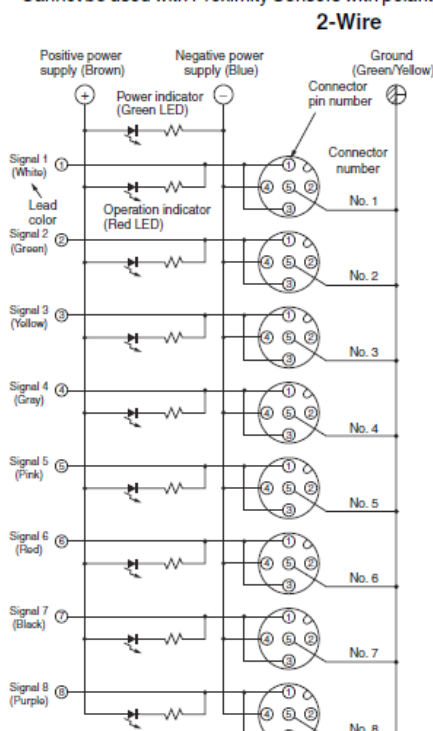
XW3B-P□55-G11 for 3-wire DC NPN, 2-wire DC (without polarity 3-4), and Actuator (1-4)



Japanese Specification

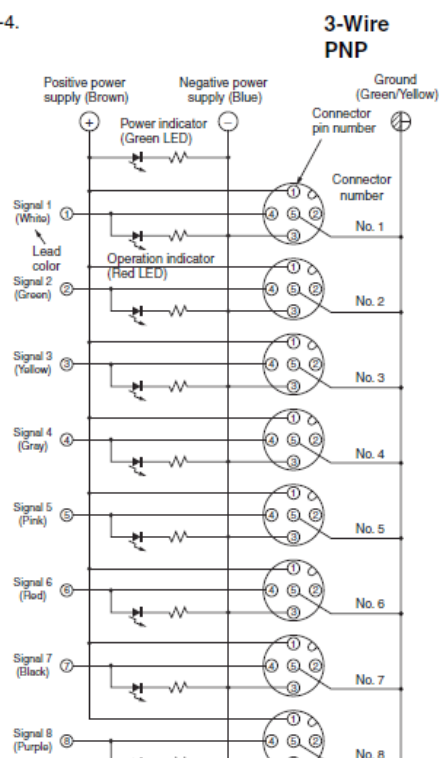
XW3B-P□52-G11 for 2-wire DC (with polarity 1-4, without polarity 3-4)

Note: Cannot be used with NPN-type Photoelectric and Proximity Sensors.
Cannot be used with Proximity Sensors with polarity 3-4.



European Specification

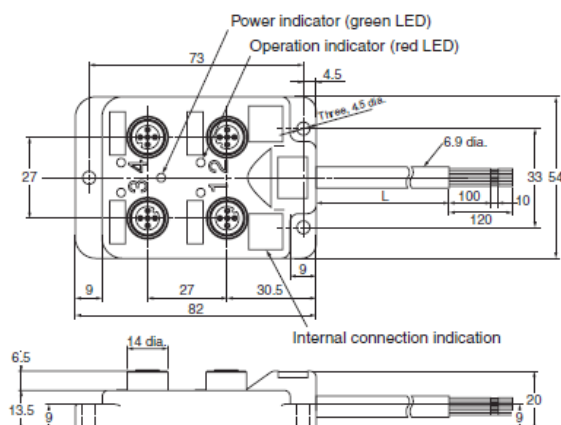
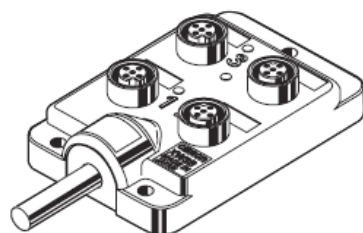
XW3B-P□53-G11 for 3-wire DC PNP, 2-wire DC (with polarity 1-4), and Actuator (3-4)



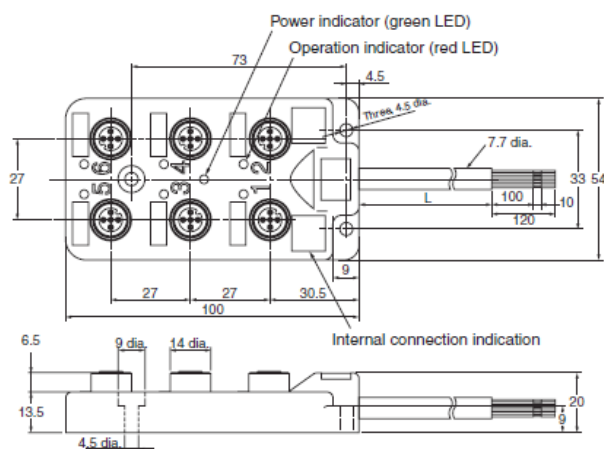
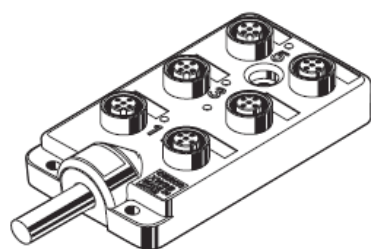
- Note:
- The above wiring diagrams are for eight-port use.
 - Figures in parentheses indicate lead colors.
 - The expression "white/red" means white and red stripes.
 - Here 1-4 and 3-4 are pin numbers.
 - Contact numbers 5 through 8 in the above diagrams do not exist on Terminal Boxes with four inputs. The lead colors for signals 1 through 4, power supply, and ground are the same.
 - Contact numbers 7 and 8 in the above diagrams do not exist on Terminal Boxes with six inputs. The lead colors for signals 1 through 6, power supply, and ground are the same.

Dimensions

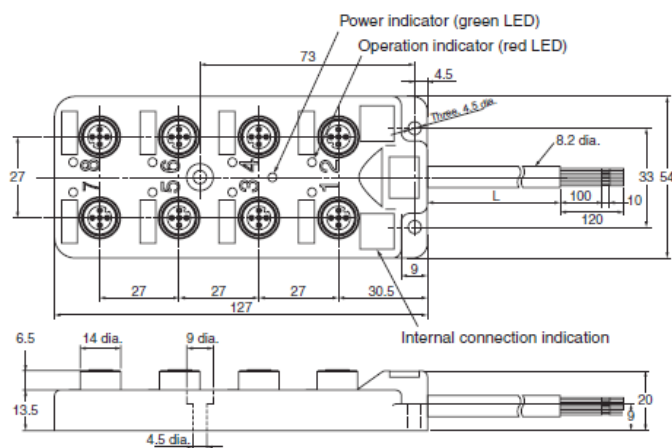
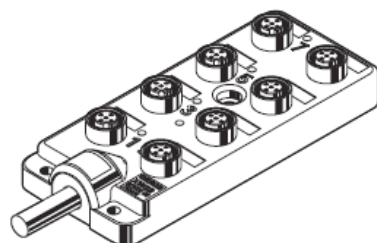
XW3B-P45□-G11 (Four Input Ports)



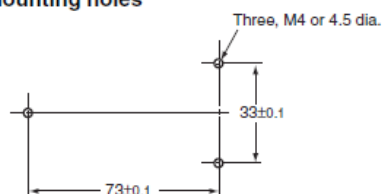
XW3B-P65□-G11 (Six Input Ports)



XW3B-P85□-G11 (Eight Input Ports)



Mounting holes



Note: Mounting hole dimensions are always the same regardless of the number of ports.