M8 and M12 Sensor Connectors and I/O boxes

XS2F/XS3F/XS5F/W/C, Y92E, XW3D

For a wide range of applications and environments the family of sensor connectors are the ideal match for the OMRON sensor portfolio. The line up is optimized to provide the best performance fit and value for money.

- M8, M12, fiber amplifier and photomicrosensor connectors
- 2, 3, 4, 5 and 8-wires
- wide application range from standard to special environments and performance requirements
- · different cable and housing materials



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XS2F/XS3F/XS5F/W/C, Y92E, XW3D

Cable connectors – quick guide and selection table

				Mate	erial	Orde	r code	Extended
Size	Shape	Туре	Features	Nut	Cable			Portfolio and Specs on Page
			3 pin		PVC 2 m PUR 2 m	XS3F-M8PVC3S2M XS3F-M8PUR3S2M	XS3F-M8PVC3A2M XS3F-M8PUR3A2M	
	The same of the sa	Pro Line		Brass (CuZn)	PVC 2 m	XS3F-M8PVC4S2M	XS3F-M8PVC4A2M	7
	6		4pin	(• • • • • • • • • • • • • • • • • • •	PUR 2 m	XS3F-M8PUR4S2M	XS3F-M8PUR4A2M	
M8		Lite Line	3 pin	Brass	PVC 2 m	XS3F-LM8PVC3S2M	XS3F-LM8PVC3A2M	9
		Lite Line	4 pin	(CuZn)	FVCZIII	XS3F-LM8PVC4S2M	XS3F-LM8PVC4A2M	9
(OO)	8	Detergent resistant Wash-down	4 pin	Stainless steel (SUS316L)	PP*1 2 m	Y92E-S08PP4S 2M-L	Y92E-S08PP4A 2M-L	17
(0)	//	Robotic			Robotic PVC 2 m	XS3F-M421-402-R	XS3F-M422-402-R	
	60	(drag chain)	4 pin	Brass (CuZn)	Robotic PUR 2 m	Y92E-M08PUR4S2M-L	Y92E-M08PUR4A2M-L	13
		High robotic (drag chain & torsion)			High robotic PUR 2 m	Y92E-M08PUR4S2M-R	Y92E-M08PUR4A2M-R	
			3 wire		PVC 2 m	XS2F-M12PVC3S2M	XS2F-M12PVC3A2M	
	1000			Dunne	PUR 2 m	XS2F-M12PUR3S2M XS2F-M12PVC4S2M	XS2F-M12PUR3A2M XS2F-M12PVC4A2M	
		Pro Line	4 wire	Brass (CuZn)	PUR 2 m	XS2F-M12PVC4S2M XS2F-M12PUR4S2M	XS2F-M12PVC4A2M XS2F-M12PUR4A2M	4
M12*2				,	PVC 2 m	XS2F-M12PVC5S2M	XS2F-M12PVC5A2M	
_			5 wire		PUR 2 m	XS2F-M12PUR5S2M	XS2F-M12PUR5A2M	
	100	Lite Line	3 wire	Brass	PVC 2 m	XS2F-LM12PVC3S2M	XS2F-LM12PVC3A2M	9
	Litte Line	4 wire	(CuZn)	1 40 2 111	XS2F-LM12PVC4S2M	XS2F-LM12PVC4A2M		
		LED	3 wire	Nickel	PVC 2 m	-	XS2F-M12PVC3A2MPLED	
	201 80-00	(power and output LED, PNP/NPN)	4 wire	plated		-	XS2F-M12PVC4A2MPLED	4
	On Albert		3 wire 4 wire	brass	PUR 2 m	-	XS2F-M12PUR3A2MPLED XS2F-M12PUR4A2MPLED	
	0	Detergent resistant Wash-down	4 wire	Stainless steel (SUS316L)	PP*1 2 m	Y92E-S12PP4S 2M-L	Y92E-S12PP4A 2M-L	17
		105°C Heat resis- tant	4 wire	Stainless steel (SUS316L)	Heat resistant PVC 2 m	XS2F-E421-D80-E	XS2F-E422-D80-E	4
					PVC 2 m	XS5F-D421-D80-F	XS5F-D422-D80-F	
	The state of the s	Twist & click	4 wire	Nickel plated Zinc	PUR 2 m	XS5F-D421-D80-P	XS5F-D422-D80-P	23
		Robotic			Robotic PVC 2 m	XS2F-D421-D80-F	XS2F-D422-D80-F	
	100	(drag chain)	4 wire	Brass	Robotic PUR 2 m	Y92E-M12PUR4S2M-L	Y92E-M12PUR4A2M-L	13
		High robotic (drag chain & torsion)	5	(CuZn)	High grade robotic PUR 2 m	Y92E-M12PUR4S2M-R	Y92E-M12PUR4A2M-R	
3 0 0 0 7 2 8 1	in the second	8 pin	8 wire shielded cable	Brass (CuZn)	Shielded PUR 2m	Y92E-M12PURSH8S2M-L	-	12
			Special fiber connector - 4 wire	РВТ	PVC 2 m	E3X-CN21		
Fiber amplifier (E3X) connector		Fiber amplifier connectors	Special fiber connector+ M8 plug	Plug: Zinc	PVC 30 cm with M8 4-pin plug	E3X-CN21-M3J-2 0.3M		31
			Special fiber connector+ M12 plug	diecast	PVC 30 cm with M12 4-pin plug	E3X-CN21-M1J 0.3M		

XS2F/XS3F/XS5F/W/C, Y92E, XW3D

				Mate	erial	Order	code	Extended
Size	Shape	Туре	Features	Nut	Cable			Portfolio and Specs on Page
M8/M12		Confection- able	Plugs and connectors for self assembly	Brass	n.a.	XS2C/G, XS5C/G Y92E_conf		24
M12	777	Field I/0 boxes	Direct wiring or DeviceNet communi- cation	_		XW3D		31
M8/M12	50	T-connectors, covers, accessories and extended wiring portfolio	n.a.	-		XS2R, XS3R, XY2F,		35

PP - polypropylene
To details on pin configuration refer to specifications

M12 Basic line Cable type

XS2F-M12

Water- and Environment-resistive FA Connectors Save Wiring and Maintenance Effort

- Compact FA connectors meet IP67 requirements and ensure a 94V-0 fire retardant rating.
- A wide array of connectors makes a wiring system more modular, simplifies maintenance, and reduces downtime.
- IEC61076-2-101(IEC60947-5-2)
- Lineup of connectors with LEDs for easy visual confirmation of Sensor operating status.



Ratings and Specifications

Item	XS2F-M12	XS2F-M12DDDADMDLED		
Rated current	4A			
Rated voltage	125 VDC 24 VDC			
Contact resistance (Connector)	40 mΩ max. (20 mV max., 100 mA max.)			
Insulation resistance	1,000 MΩ min. (at 500 VDC)			
Dielectric strength (Connector)	AC 1,500 V 1 min. (leakage current: 1 mA max.).			
Degree of protection	IP67 (IEC60529)			
Temperature range	-10 to +80°C			

Materials and Finish

Contacts	Copper alloy/ nickel base, gold plating
Pin block	PBT resin (UL94 V-0)
Fixtures	Copper alloy/ nickel plating
Cover	PBT resin (UL94V-0)

PVC Cable

Item	3 cores	4 cores	
Color	Black		
Outer diameter	5 mm dia.	5 mm dia. *	
Conductor size	AWG23 0.25 mm ² (32/0.1)		
Approvals	AWM2464		
Features	Flame retardant		

^{*}LED Type is 5.4 mm dia.

PUR Cable

Item	3 cores	4 cores		
Color	Black			
Outer diameter	4.3 mm dia.	4.7 mm dia.		
Conductor size	AWG22 0.32 mm ² (42/0.1)			
Approvals	AWM20936			
Features	Flame retardant Halogen free Oil resistance			

Connector Pinout Diagram (from Mating Side)

Item	No. of poles	4 poles
DC type	Male (plug) contacts	
во туре	Female (socket) contacts	

XS2F M12 Sockets on One Cable End

Straight

Straight

Model

PVC cable is 50mm.
*PUR cable is 40mm.

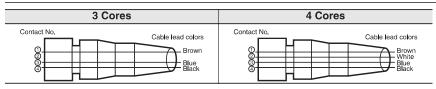
PUR cable is 40mm.

PUR cable is 40mm.

PUR cable is 40mm.

Note: For 3-core, pin 2 is not connected internally

Wiring Diagram



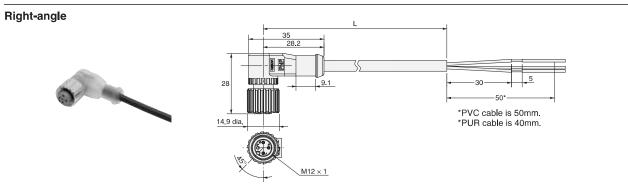
Ordering Information

Cable type	No. of cable cores	Cable outer diameter	Cable connection direction	Cable length (m)	Model
Cable type	No. of cable cores	Cable outer diameter	Cable Conflection direction	• • •	XS2F-M12PVC3S2M
			Otro- i oli t	5	XS2F-M12PVC3S5M
			Straight		XS2F-W12PVC3S5W XS2F-M12PVC3S10M
	3			10	
			Dialet and a	2	XS2F-M12PVC3A2M
			Right-angle	5	XS2F-M12PVC3A5M
				10	XS2F-M12PVC3A10M
PVC		5.0 dia		2	XS2F-M12PVC4S2M
		0.0 414	Straight	5	XS2F-M12PVC4S5M
			Straight	7	XS2F-M12PVC4S7M
	4			10	XS2F-M12PVC4S10M
	4		Right-angle	2	XS2F-M12PVC4A2M
				5	XS2F-M12PVC4A5M
				7	XS2F-M12PVC4A7M
				10	XS2F-M12PVC4A10M
			Straight	2	XS2F-M12PUR3S2M
				5	XS2F-M12PUR3S5M
		4.0 dia		10	XS2F-M12PUR3S10M
	3	4.3 dia		2	XS2F-M12PUR3A2M
			Right-angle	5	XS2F-M12PUR3A5M
DUD				10	XS2F-M12PUR3A10M
PUR				2	XS2F-M12PUR4S2M
			Straight	5	XS2F-M12PUR4S5M
		4.7.4:-		10	XS2F-M12PUR4S10M
	4	4.7 dia		2	XS2F-M12PUR4A2M
			Right-angle	5	XS2F-M12PUR4A5M
				10	XS2F-M12PUR4A10M

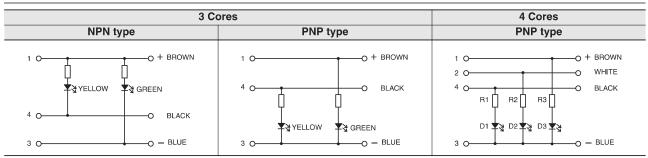
XS2F M12 Sockets on One Cable End with LED

XS2F-M12PVC A MLED PVC Cable XS2F-M12PUR A MLED PUR Cable

Dimensions (Unit: mm)



Wiring Diagram



Ordering Information

Cable type	No. of cable cores	Cable outer diameter	Cable connection di- rection	Cable length (m)	Model	LED	
				2 XS2F-M12PVC	XS2F-M12PVC3A2MPLED		
				5	XS2F-M12PVC3A5MPLED	PNP	
	3	5.0 dia.		10	XS2F-M12PVC3A10MPLED		
	3	5.0 dia.		2	XS2F-M12PVC3A2MNLED		
PVC				5	XS2F-M12PVC3A5MNLED	NPN	
				10	XS2F-M12PVC3A10MNLED		
			1	2	XS2F-M12PVC4A2MPLED		
	4	5.4 dia	Right-angle	5	XS2F-M12PVC4A5MPLED	1	
				10	XS2F-M12PVC4A10MPLED		
				2	XS2F-M12PUR3A2MPLED	1	
	3	4.3 dia		5	XS2F-M12PUR3A5MPLED	PNP	
PUR					10	XS2F-M12PUR3A10MPLED	
FUN				2	XS2F-M12PUR4A2MPLED	1	
	4 4.7 dia	4.7 dia		5	XS2F-M12PUR4A5MPLED	1	
				10	XS2F-M12PUR4A10MPLED		

M8 Basic line Cable type

XS3F-M8

Small Round Water-resistive Connectors

- Water-resistive, compact connector meets IP67 requirements.
- Ideal for a wide variety of FA and OA applications.
- Connectors on both cable ends require no harness work.



Ratings and Specifications

Rated current	1A
Rated voltage	125 VDC
Contact resistance (Connector)	40 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (Connector)	AC 1,000 V 1 min. (leakage current: 1 mA max.).
Degree of protection	IP67 (IEC60529)
Temperature range	-10 to +80°C

Materials and Finish

Contacts Copper alloy/ nickel base, gold plating	
Pin block	PBT resin (UL94 V-0)
Fixtures	Copper alloy/ nickel plating
Cover	PBT resin (UL94V-0)

PVC Cable

Item	3, 4 cores
Color	Black
Outer diameter	5 mm dia.
Conductor size	AWG23 0.25 mm ² (32/0.1)
Approvals	AWM2464
Features	Flame retardant

PUR Cable

Item	3 cores	4 cores
Color	Black	
Outer diameter	4.3 mm dia.	4.7 mm dia.
Conductor size	AWG22 0.32 mm ² (42/0.1)	
Approvals	AWM20936	
Features	Flame retardant Halogen free Oil resistance	

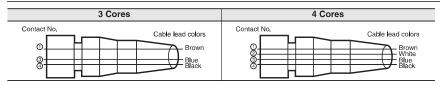
Connector Pinout Diagram (from Mating Side)

Item	Poles	3 poles	4 poles
DC	Male (plug) contacts	40 1 3 0 0	2 ₀ 0 ⁴ 10 03
	Female (socket) contacts	3 1 0 0	4 ₀ 0 ² 30 01

XS3F M8 Sockets on One Cable End

Dimensions (Unit: mm) Straight (3 cores) - 31.9 XS3F-M8PVC4S2M 00000 50* (4 cores) Model Lot No. *PVC cable is 50mm.
PUR cable is 40mm. Right-angle 23.1 XS3F-M8PVC4A2M 00000 - 50 -Lot No. Model *PVC cable is 50mm. 9 dia. *PUR cable is 40mm. (4 cores)

Wiring Diagram



M8 × 1

Ordering Information

Cable type	No. of cable cores	Cable outer diameter	Cable connection direction	Cable length (m)	Model
				2	XS3F-M8PVC3S2M
			Straight	5	XS3F-M8PVC3S5M
3			10	XS3F-M8PVC3S10M	
	3			2	XS3F-M8PVC3A2M
			Right-angle	5	XS3F-M8PVC3A5M
PVC 4	5.0 dia.		10	XS3F-M8PVC3A10M	
	5.0 dia.		2	XS3F-M8PVC4S2M	
		Straight	5	XS3F-M8PVC4S5M	
			10	XS3F-M8PVC4S10M	
	4		Right-angle	2	XS3F-M8PVC4A2M
				5	XS3F-M8PVC4A5M
				10	XS3F-M8PVC4A10M
			Straight	2	XS3F-M8PUR3S2M
				5	XS3F-M8PUR3S5M
	3	4.3 dia		10	XS3F-M8PUR3S10M
	3		Right-angle	2	XS3F-M8PUR3A2M
				5	XS3F-M8PUR3A5M
PUR				10	XS3F-M8PUR3A10M
FUN				2	XS3F-M8PUR4S2M
			Straight	5	XS3F-M8PUR4S5M
		4.7 dia		10	XS3F-M8PUR4S10M
4	4.7 ula		2	XS3F-M8PUR4A2M	
			Right-angle	5	XS3F-M8PUR4A5M
				10	XS3F-M8PUR4A10M

M8 and M12 Sensor Connectors

$\mathsf{XS}_{\mathsf{-}}\mathsf{-}\mathsf{L}$

The XS_-L family provides reliable operation in standard factory environments. The M8 and M12 sensors are designed to match the specifications of OMRON Lite Line sensors and provide excellent value for money.

- M8 and M12 brass female connectors
- 3-wire and 4-wire PVC cables
- ideal specification match for sensor usage in standard factory environments



Ordering Information

Туре		Size	Cable material	Features	Shape	Cable length	Order code
						2 m	XS3F-LM8PVC3S2M
	M8	4		2 veira	1	5 m	XS3F-LM8PVC3S5M
		36 0 01		3-wire		2 m	XS3F-LM8PVC3A2M
						5 m	XS3F-LM8PVC3A5M
		4 2				2 m XS3F-LM8PVC3S2M 5 m XS3F-LM8PVC3S5M 2 m XS3F-LM8PVC3A2M	XS3F-LM8PVC4S2M
		360001			1	5 m	XS3F-LM8PVC4S5M
		300001 PVC		4-wire		2 m	XS3F-LM8PVC4A2M
Sensor connector with open cable end			DVO.			5 m	XS3F-LM8PVC4A5M
for standard factory		M12 30 04	PVC	3-wire		2 m	XS2F-LM12PVC3S2M
environments						5 m	XS2F-LM12PVC3S5M
	M12					2 m	XS2F-LM12PVC3A2M
	"""					5 m	XS2F-LM12PVC3A5M
						2 m	XS2F-LM12PVC4S2M
		2000	PVC 5 m	XS2F-LM12PVC4S5M			
		M12 3 0 0 4 2 0 0 1		4-wire		2 m	XS2F-LM12PVC4A2M
						5 m	XS2F-LM12PVC4A5M

Specifications

	M8	M12
Wire size	0.25 mm ²	0.34 mm ²
Rated current	0.5 A	0.8 A
Rated voltage	30 VDC	
Degree of protection	IP67 (IEC 60529)	
Ambient temperature	-10°C to 65°C	

Pin arrangement

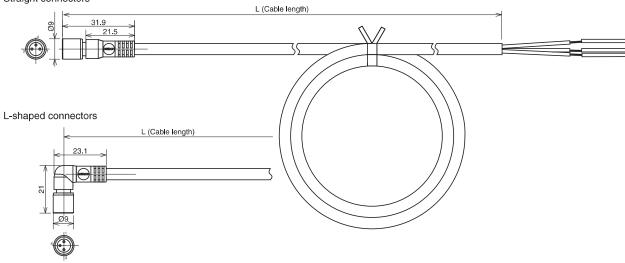
i ili arrangement			
M8 3-wire	M8 4-wire	M12 3-wire	M12 4-wire
$ \begin{array}{c c} 4 & 1 = brown \\ 3 = blue \\ 4 = black \end{array} $	3 0 0 1 = brown 2 = white 3 = blue 4 = black	3 0 4 1 = brown 2 = n.c. 3 = blue 4 = black	3 O 4 1 = brown 2 = white 3 = blue 4 = black

XS3F

M8 Screw-on cable connectors

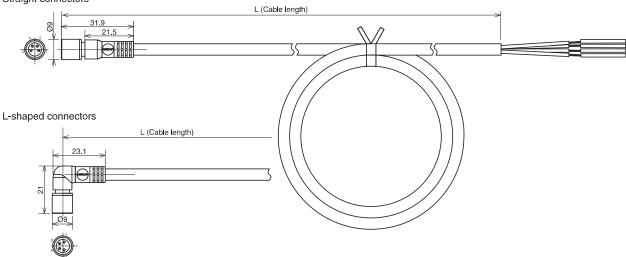
3-wire

Straight connectors



4-wire

Straight connectors

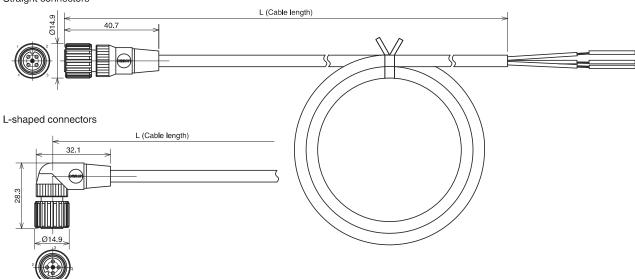


XS2F

M12 Screw-on cable connectors

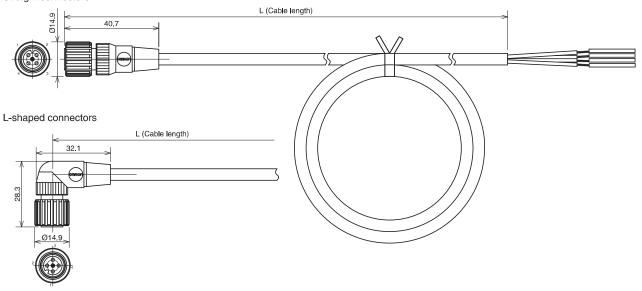
3-wire

Straight connectors



4-wire

Straight connectors



M12 8-Pin Sensor Connectors

Y92E-M12_8

For the connection of sensors with M12 8-pin connectors, the Y92E-M12_8 family provides error-free signal transmission in standard and challenging environments.

- M12 8-pin brass connectors
- Halone-free PUR cable with outer shielding layer



Ordering Information

Туре	Size	Cable material	Features	Shape	Cable length	Order code
					2 m	Y92E-M12PURSH8S2M-L
Sensor connector with					5 m	Y92E-M12PURSH8S5M-L
open cable end					10 m	Y92E-M12PURSH8S10M-L
					25 m	Y92E-M12PURSH8S25M-L
	M12	PUR	8-pin, outer		0.6 m	Y92E-M12FSM12MSPURSH806M-L
Female-male extension	IVITZ	FUN	shielding layer		2 m	Y92E-M12FSM12MSPURSH82M-L
connector					5 m	Y92E-M12FSM12MSPURSH85M-L
					10 m	Y92E-M12FSM12MSPURSH810M-L
Male-male extension					0.3 m	Y92E-M12MSM12MSPURSH80.3M-L
connector					0.9 m	Y92E-M12MSM12MSPURSH80.9M-L

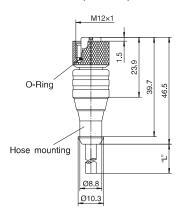
Specifications

		Y92E-M12_8
Wire size		0.25 mm ²
Rated current		4 A
Rated voltage		30 VDC
Degree of protection		IEC 60529: IP67
Ambient temperature		-25°C to 80°C
Rated standards		AWM 21198
	Flame retardant	IEC 60332-2-2 CSA FT2
	Halone free	IEC 60754-1
	RoHS	2002/95/EC

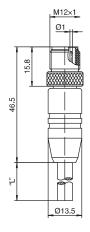
Dimensions

(Unit: mm) Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Y92E-M12_8 (female)



Y92E-M12_8 (male)



Pin arrangement

M12 8	3-pin (female)	
	1 = white	
5	2 = brown	
4 0 6	3 = green	
-(0,00)-	4 = yellow	
3 (0 0 0) 7	5 = grey	
2 1	6 = pink	
- 8 '	7 = blue	
	8 = red	
M12	8-pin (male)	
	1 = white	
5	2 = brown	
6 4	3 = green	
	4 = yellow	
7 () 3	5 = grey	
2	6 = pink	
1 8 ²	7 = blue	
	8 = red	

M8 and M12 Robotic Sensor Connectors

XS, Y92E

For demanding applications in drag chains or in the moving parts of robots, the robotic sensor connector family provides the bending and torsion performance required for reliable and long life operation.

- M8 and M12 brass female connectors
- suitable for frequently or constantly moving applications
- > 2 Mio drag chain bending performance PVC or PUR models
- > 5 Mio drag chain bending and > 10 Mio torsion performance PUR models



Ordering Information

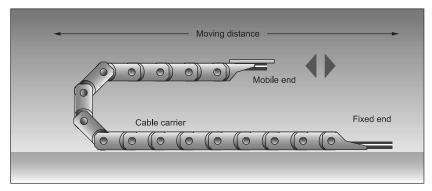
Туре	Size	Cable material	Bending performance (drag chain)	Torsion performance	Features	Shape	Cable length	Order code		
			(arag snam)	perrermance			2 m	XS3F-M421-402-R		
						1	5 m	XS3F-M421-405-R		
	M8	PVC					2 m	XS3F-M422-402-R		
	4 2						5 m	XS3F-M422-405-R		
	3(0 0)1						2 m	Y92E-M08PUR4S2M-L		
		DUD					5 m	Y92E-M08PUR4S5M-L		
Sensor		PUR					2 m	Y92E-M08PUR4A2M-L		
connector with open cable end			- > 2 Mio	(not specified)	4-wire		5 m	Y92E-M08PUR4A5M-L		
and robotic		PVC O 5 O 3 PUR					2 m	XS2F-D421-D80-F		
cable							5 m	XS2F-D421-G80-F		
	M12						2 m	XS2F-D422-D80-F		
						6	5 m	XS2F-D422-G80-F		
							2 m	Y92E-M12PUR4S2M-L		
	100/3						5 m	Y92E-M12PUR4S5M-L		
		PUR					2 m	Y92E-M12PUR4A2M-L		
						6	5 m	Y92E-M12PUR4A5M-L		
	M8	M8	M8						2 m	Y92E-M08PUR4S2M-R
	4 2					1	5 m	Y92E-M08PUR4S5M-R		
Sensor	3(0 0)1						2 m	Y92E-M08PUR4A2M-R		
connector with open cable end		DI ID	- 14	40.14			5 m	Y92E-M08PUR4A5M-R		
and	M12	PUR	> 5 Mio	> 10 Mio			2 m	Y92E-M12PUR4S2M-R		
high grade robotic cable	1000					1	5 m	Y92E-M12PUR4S5M-R		
	(05)						2 m	Y92E-M12PUR4A2M-R		
	100%						5 m	Y92E-M12PUR4A5M-R		

XS, Y92E

Bending and torsion performance

The bending and torsion performance of the robotic sensor connectors has been tested using the below test methods.

1. Bending (drag chain)

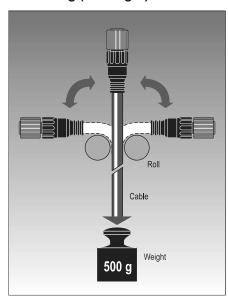


Cable carrier bending radius: approx. $9 \times$ cable outer diameter

Movement speed: PVC: 120 m/min (max)

PUR: 200 m/min (max); max 5 m/s²

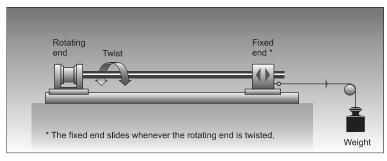
2. Bending (left - right)*1



Bending angle: ±90°
Bending speed: 35 cycles/min
Roll diameter: 60 mm

*1 For PVC models

3. Torsion



Torsion angle and length: PVC: $\pm 180^{\circ}$ over 0.5 m

PUR: ±360° over 1 m

Specifications

_		Robot	ic PVC	Robo	tic PUR	High gra	de robotic PUR	
		XS3FR XS2FF		Y92E	E-ML	Y92E-MR		
		M8	M12	M8	M12	M8	M12	
Wire size		0.25 mm ²	0.34 mm²					
Rated current		1A	4A					
Rated voltage		125 VDC		30 VDC	240 VDC	30 VDC	240 VDC	
Degree of prote	ection	IEC 60529: IP67						
F	Fixed			–50°C to 80°C				
Ambient	Moving	Ī		-25°C to 80°C				
temperature	Continuous drag chain operation	−25° to 70°C		-25°C to 60°C 5°C to 60°C				
	Style	-	AWM 2464	AWM 20549				
Rated standards	Flame retardant	_	- UL VW1 CSA FT4		IEC 60332-2-2 CSA FT2			
Stanuarus	Halone free	-		IEC 60754-1				
	RoHS	2002/95/EC						

Pin arrangement

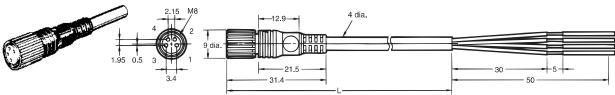
M8 4-pin	M12 4-wire
1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = n.c.

Dimensions (Unit: mm)

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

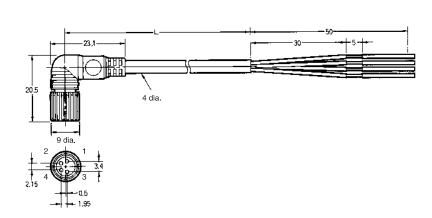
XS3F-_-R

Straight Connectors



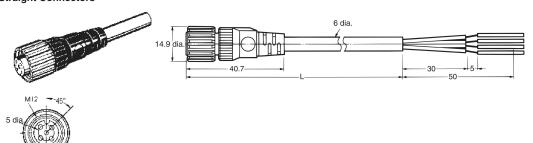
L-shaped Connectors



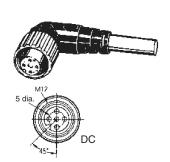


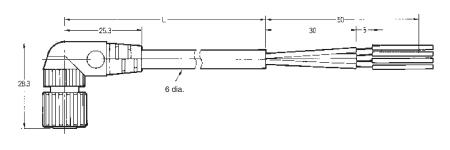
XS, Y92E

XS2F-_-F Straight Connectors



L-shaped Connectors

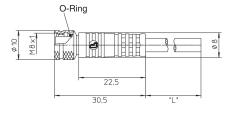




Y92E-M08_

Straight Connectors





L-shaped Connectors

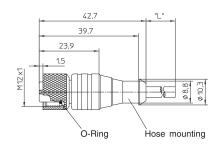


O-Ring

Y92E-M12_

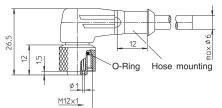
Straight Connectors





L-shaped Connectors





Y92E-S_PP

- Highest operational reliability
- Strong flexibility due to the product variety
- Support of global industry standards (UL, ECOLAB, etc.)
- Increasing efficiency caused by superior handling characteristics as well as the potential to decrease costs



Ordering information

Detergent and wash-down resistant models

Туре	Size	Material		Features	Shape	Length	Order code
	3126	Nut	Cable	reatures	Shape	Length (m) ^{*1}	Order code
					Angled	2	Y92E-S08PP3A 2M
				3 pin	Angled	5	Y92E-S08PP3A 5M
				3 pin	Straight	2	Y92E-S08PP3S 2M
MO	M8	9119 3161	PP (Polypropylene)		Straight	5	Y92E-S08PP3S 5M
	IVIO			4 pin	Angled	2	Y92E-S08PP4A 2M
Detergent resistant						5	Y92E-S08PP4A 5M
Wash-down					Straight	2	Y92E-S08PP4S 2M
						5	Y92E-S08PP4S 5M
					A II	2	Y92E-S12PP4A 2M
M12	M10				Angled	5	Y92E-S12PP4A 5M
	IVI I Z				Straight	2	Y92E-S12PP4S 2M
					Straight	5	Y92E-S12PP4S 5M

 $^{^{\}star 1}$ $\,\,$ For different cable length please contact your Omron representative

Specifications

Rated current	4 A
Rated voltage	M8: 60 VDC M12 4-wire: 250 VDC
Degree of protection	IP67 / IP68 / IP69K (IEC 60529)
Ambient temperature	-30 to 90°C
Approvals	UL-File Nr. E315587; ECOLAB

Pin arrangement

M8 3 pin		M8 4	l pin	M12 4 pin	
	1 = brown 3 = blue 4 = black	3 0 0 1	1 = brown 2 = white 3 = blue 4 = black	3 0 0 4 0 5 2 0 0 1	1 = brown 2 = white 3 = blue 4 = black 5 = n.c.

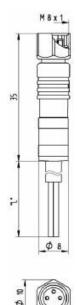
Materials

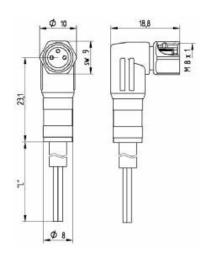
Pin block	PP, white (Polypropylene)
Contacts	Cu/Au, 0.3 μm gold plating
Fixture	Stainless steel
Cover	PP (Polypropylene)
O-ring	EPDM
Cable sheath	TPE (Thermoplastic elastomers)

Y92E-S_PP

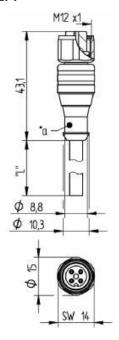
Dimensions

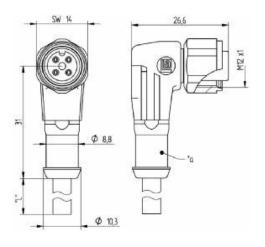
Y92E-S08PP



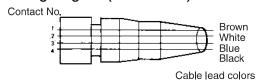


Y92E-S12PP





Wiring Diagram (M8 and M12)



Round Water-resistive Smartclick Connectors That Reduce Installation Work

- A newly developed lock mechanism that is compatible with round M12 connectors.
- Simply insert the Connectors, then turn them approximately 1/8 of a turn to lock.
- A positive click indicates locking.
- Features the same degree of protection (IP67) as M12 connectors.
- A full line-up of models is planned.
- Connectors with Cables are UL approved.



Ratings and Specifications

Rated current	14.6
Hated current	4 A
Rated voltage	250 VDC
Contact resistance (connector)	40 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (connector)	1,500 VAC for 1 min (leakage current: 1 mA max.)
Degree of protection	IP67 (IEC60529)
Insertion tolerance	50 times min.
Lock strength	Tensile: 100 N/15 s, Torsion: 1 N·m/15 s
Cable holding strength	Tensile: 100 N/15 s, Torsion: 1 N·m/15 s (for cable diameter of 6 mm) *2
Lock operating force	0.1 to 0.25 N·m
Ambient operating temperature range	-25 to 70°C
Ambient humidity range	20% to 85%
Number of pressure-weld repairs *1	10 times max. (Limited to the same external diameter and wire diameter.)

^{*1.} Only XS5C/G (IDC models)
*2. Refer to product specifications for details.

XS5W

Materials and Finishes

Item	Model	XS5F/H/W	XS5R	XS5M/P	XS5C/G (Crimping, Soldering)	XS5C/G (Screw-on)	XS5C/G (IDC models)	
Contacts	Material	Phosphor bronze	Phosphor bronze or Brass	Phosphor bronze	Brass	Phosphor bronze or Brass	Phosphor bronze	
Comacis	Finish	Nickel base, 0.4-μm gold plating					Nickel base, 0.15- μm gold plating	
Fixture	s	Nickel-plated zinc a	ılloy					
Fixture	es (Lock) *	Stainless						
Pin blo	ck	PBT resin (UL94V-	0)					
O-ring		Rubber						
Overm	olding/Cover	Soft PBT resin (UL94V-0) PBT resin (UL94V-0)						
	Fire-retardant, Robot cable	UL AWM2464 CL3, AWG20 (0.5mm²) Structure: 0.08 mm	,					
Cable	Oil-resistant polyurethane cable							
	Spatter-resis- tant Cable	6.6 mm dia. AWG20 (0.5mm²) Structure: 0.08 mm	/100 wires					
Seal re	sin			Epoxy resin (UL94V-0)				
Power	Power supply wires			UL1007 AWG20				

^{*}Only plug

Connector Pinout Diagram (from Mating Side)

Item	No. of poles	4 poles
DC type	Male (plug) contacts	
	Female (socket) contacts	

Connection Combinations

		Smartclick Plug Connectors	M12 Plug Connectors	
OMRON model No.		XS5H, XS5G, XS5W (plug side), XS5R (plug side), XS5M	XS2H, XS2G, XS2W (plug side), XS2R (plug side), XS2M	
Smartclick Socket Connectors	XS5F, XS5C, XS5W (socket side), XS5R (socket side), XS5P	©	0	
M12 Socket Connectors	XS2F, XS2C, XS2W (socket side), XS2R (socket side), XS2P	0	0	

Smartclick

XS5W Connectors Connected to Cable, Socket and Plug on Cable Ends

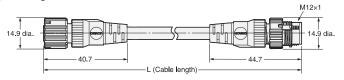
- Fire-retardant, Robot cable
- Oil-resistant Polyurethane Cable
- Spatter-resistant Cable

XS5W-D42□-□81-F

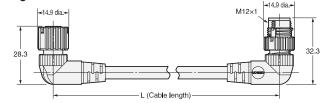
XS5W-D42□-□81-P XS5W-D421-□81-SA

Dimensions (Unit: mm)

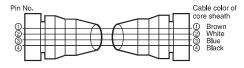
Straight/straight



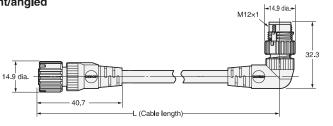
Angled/angled



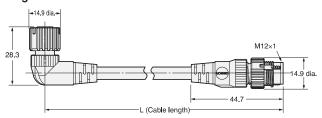
Wiring Diagram for 4 Cores



Straight/angled



Angled/straight



Note: Oil-resistant Polyurethane Cables (XS5W-D42 - 81-P) and Spatter-resistant Cable (XS5W-D421 - 81-SA) have black covers. Fire-retardant, Robot cable (XS5W-D42□-□81-F) have warm gray covers.

XS5W

Model Number Legend



Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.

E: 3 m

1. Type

W: Connectors connected to cable, socket and plug on cable ends

2. Mating Section Form

D: DC

3. Connector Poles

4: 4 poles

4. Contact Plating

2: 0.4-µm gold plating

5. Cable Connection Direction

- 1: Straight/straight
- 2: Angled/angled
- 3: Straight (Socket)/angled (Plug)
- 4: Angled (Socket)/straight (Plug)

6. Cable Length

C: 1 m D: 2 m

G: 5 m J: 10m

7. Connections

8: ① Brown, ② White, ③ Blue, ④ Black (Numbers inside circles are terminal numbers)

8. Connectors on One End/Both Ends

1: Both ends

9. Cable Specifications

F: Fire-retardant, Robot cable

P: Oil-resistant Polyurethane Cable

SA: Spatter-resistant Cable

Ordering Information

Cable specifications	Cable	Cable outer	Straight/straight	Angled/angled	Minimum order	UL
Cable specifications	length L (m)	diameter (mm)	Mo	del		
	1		XS5W-D421-C81-F		10	
	2		XS5W-D421-D81-F	XS5W-D422-D81-F		
Fire-retardant, Robot cable	3		XS5W-D421-E81-F		5	Yes
000.0	5	6	XS5W-D421-G81-F	XS5W-D422-G81-F		
	10		XS5W-D421-J81-F		1	
	2		XS5W-D421-D81-P		5	
Oil-resistant Polyure- thane Cable	5		XS5W-D421-G81-P		3	
mano Gabio	10		XS5W-D421-J81-P		1	
Spatter-resistant	2	6.6	XS5W-D421-D81-SA		5	
Cable	5	0.6	XS5W-D421-G81-SA		3	
Cable specifications	Cable	Cable outer	angled (Plug) Straight (Plug)		Minimum	UL
	length L (m)	diameter (mm)	Мо	order		
Fire-retardant, Robot	2	6	XS5W-D423-D81-F	XS5W-D424-D81-F	5	Yes
cable	5	0	XS5W-D423-G81-F	XS5W-D424-G81-F	3	168

XS5F

Ordering information

Туре	Size	Material		Features	Shape	Length (m)	Order code
		Nut	Cable	reatures	Shape	Length (III)	Order code
Twist & Click ^{*1} M12				or Omron Smartclick	Angled	2	XS5F-D422-D80-F
	M10	M12 Brass	PVC*2			5	XS5F-D422-G80-F
	IVITZ				Straight	2	XS5F-D421-D80-F
						5	XS5F-D421-G80-F

^{*1} The XS5F connectors can be attached to standard M12 plug connectors (screw-fix) and to XS5 plug connectors (twist & click). For details on the twist & click locking mechanism refer to XS5 data sheet.

Specifications

Rated current	4A
Rated voltage	125 VDC, 250 VAC
Degree of protection	IP67 (IEC 60529)
Ambient temperature	-25°C to 70°C

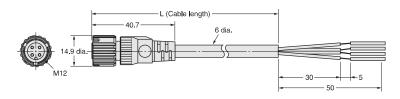
Pin arrangement

M12 4 poles 1 = brown 2 = white 3 = blue 4 = black 5 = n.c.

Materials

Pin block	PBT resin (UL94V-0)	
Contacts	Phosphor bronze/nickel base, 0.4 µm gold plating	
Fixture	Zinc alloy/nickel plated	
Cover	Polyester elastomer (UL94V-0)	
O-ring	Rubber	

Dimensions



 $^{^{\}star 2}$ $\,\,$ For PUR models replace -F by -P in the order code

Confectionable plugs and connectors (self-assembly)

XS2C/G, XS5C/G, Y92E-_-conf

Ordering information

Туре	Size	Material Nut	Fe	atures	Shape	Order code
	M8		3 pin		straight	Y92E-MM08PVC3Sconf-L
	IVIO		4 pin	4 pin		Y92E-MM08PVC4Sconf-L
				IDC		XS5G-D418
			4 pin	crimp	straight	XS2G-D4C3
			4 pin	solder		XS2G-D423
Plug (male)				solder	angled	XS2G-D424
	M12		5 pip	corou fiv	straight	XS2G-D5S1
			5 pin	screw fix	angled	XS2G-D5S2
			4 pin twist & click	screw fix	straight	XS2G-D4S3
		Polyester elastomer	(for 4-5 mm cables)		angled	XS2G-D4S4
	M8	MO	3 pin		straight	Y92E-M08PVC3Sconf-L
	IVIO		4 pin		Straight	Y92E-M08PVC4Sconf-L
				IDC		XS5C-D418
				crimp	straight	XS2C-D4C3
Connector (female)			4 pin	solder		XS2C-D423
	M12			crimp	angled	XS2C-D4C4
				solder	angled	XS2C-D424
			5 pin	screw fix	straight	XS2C-D5S1
				2016M IIX	angled	XS2C-D5S2

Specifications

	Y92E	XS2C/G, XS5C/G
Rated current	4 A	
Rated voltage	36 VDC	125 VDC, 250 VAC
Degree of protection	IP67 (IEC60529)	
Ambient temperature	-25°C to 70°C	

Pin arrangement

M8		M12			
Plug	Connectors	PI	ug	Conn	ectors
4 pin	4 pin	4 pin	5 pin	4 pin	5 pin
1 0 0 3	3 0 0 1	4003	4 O O 3 O 5 O 2	30	O 4 O 5 O 1
4 pin: 1 = brown 2 = white 3 = blue 4 = black 5 = n.c.	5 pin: 1 = brown 2 = white 3 = blue 4 = black 5 = green / yellow				

Materials

	Y92E	XS2C/G, XS5C/G	
Pin block	PVC	PBT resin (UL94V-0)	
Contacts	CuSn, nickel base, 0.3 µm gold plating	Brass/nickel base, 0.4 µm gold plating	
Fixture	- Cu3π, πicker base, 0.3 μm gold platting	Brass/nickel base	
Cover	PVC	PBT resin (UL94V-0)	
O-ring	FKM	Rubber	

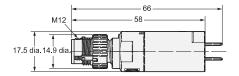
Dimensions

Plugs (male)

XS5G-D418 (IDC Model, Straight)



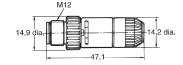




XS2G-D4C□ (Crimping Model, Straight), XS2G-D42□ (Soldering Model, Straight)



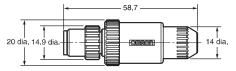




XS2G-D5S1 (Screw-on model, Straight)



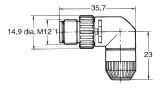




XS2G-D42 (Soldering Model, L-shaped)



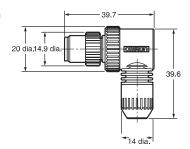




XS2G-D5S2 (Screw-on model, angled)







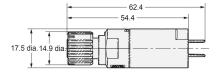
XS2C/G, XS5C/G, Y92E-_-conf

Connectors (female)

XS5C-D418 (IDC Model, Straight)



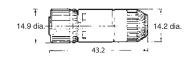




XS2C-D4C□ (Crimping Model, Straight), XS2C-D42□ (Soldering Model, Straight)



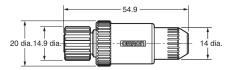




XS2C-D5S1 (Screw-on model, straight)



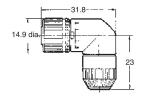




XS2C-D4C□ (Crimping Model, L-shaped)
XS2C-D42□ (Soldering Model, L-shaped)



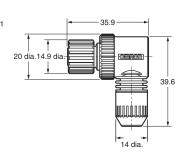




XS2C-D5S2 (Screw-on model, angled)



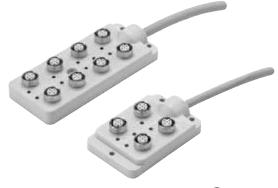




XW3D

Simple Wiring of Sensor Actuators

- Greatly reduce wiring in combination with the Smartclick XS5.
- Insert the connector and turn 1/8 of a turn to lock the connectors.
- Higher rated current to enable output applications.
- Use previous M12 screw connectors.



Smartclick

Specifications

Rated current	4 A/port, 12 A/Box (power line)
Rated voltage	10 to 30 VDC
Contact resistance (connector)	40 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (connector)	500 VAC for 1 min (leakage current: 1 mA max.)
Degree of protection	IP67 (IEC60529)
Insertion tolerance	50 times min.
Lock strength	Pulling: 100 N/15 s, Twisting: 1 N·m/15 s
Cable holding strength	100 N/15 s
Lock operating force	0.1 to 0.25 N·m
Ambient temperature range	Operating: –25 to 70°C

Materials and Finish

Item	Materials/finish	
Contacts	Brass/nickel base, 0.4-μm gold-plating	
Fixtures	Nickel-plated zinc alloy	
Case	PBT resin (UL94V-O), light gray	
Bushing	Rubber	
O-ring	Rubber	
PCB	Glass epoxy board	
Sealing resin	Urethane resin (UL94V-0)	
Cable	UL AWM2464 Signal lines: AWG22 Power and ground lines: AWG18	

Connection Combinations

OMRON model no. Connector Terminal Box XW3D		Twist-and-Click Plug Connectors	M12 Plug Connectors
		XS5H, XS5G, XS5W (plug end), XS5R (plug end)	XS2H, XS2G, XS2W (plug end), XS2R (plug end)
		0	0

XW3D

Ordering Information

Sensor typ	e and wiring	3-wire DC NPN/2-wire DC 3-4 2-wire DC 1-4/without polarity 3-4 3		3-wire DC PNP/2-wire DC 1-4
Actuat	or wiring	Actuator wiring 1-4 —		Actuator wiring 3-4
No. of ports	No. of I/O	Model		
4	4	XW3D-P455-G11	XW3D-P452-G11	XW3D-P453-G11
8	8	XW3D-P855-G11	XW3D-P852-G11	XW3D-P853-G11
4	8	XW3D-P458-G11	_	XW3D-P457-G11

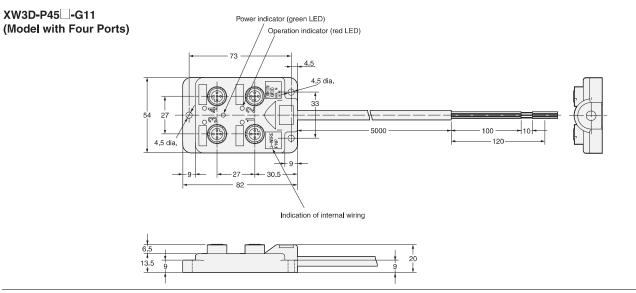
Note 1. "1-4" and "3-4" are the connector pin numbers that are wired.

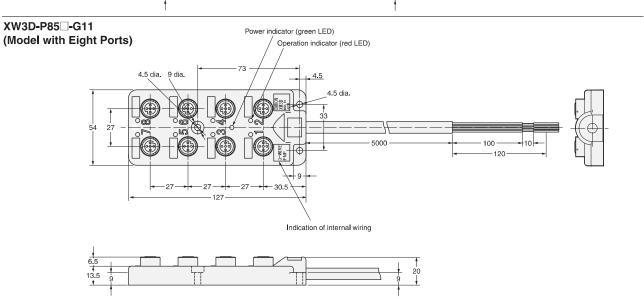
Waterproof Cover (Sold Separately)

Appearance	Model	No. per box	Material
	XS5Z-11	50	РВТ
	XS2Z-22	50	Brass with Ni plating

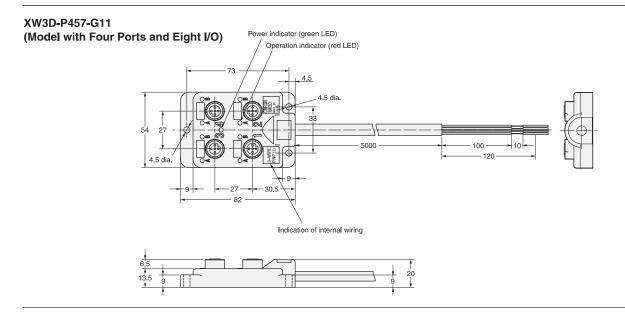
Note 1. The XW3D/XW3B/XW3A comes with a dust cover. If IP67 degree of protection is required, use the XS5Z-11 or XS2Z-22 (sold separately). 2. The XS2Z-22 connection is threaded.

Dimensions (Unit: mm)





^{2.} All cables are 5 m long.



Wiring Diagrams

Positive

power supply

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Signal 1 ① (White)

Signal 2 ②

Signal 3 ③

Signal 4 (4) (Gray)

Signal 5(5)

Signal 6 ⑥ (Red)

Signal 7(7)

Signal 8 ® (Purple)

(Black)

(Pink)

(Yellow)

Models with One I/O and One Port

XW3D-P□55-□11
for 3-wire NPN,
2-wire DC (without polarity 3-4),
and Actuator (1-4)

Negative

power supply

(1) (1) (2) (3) (4)

100

(4 (L)

3

⊕ \

(O (O)

-3,

100

(4 (5. (2)

-3

∞

(0 Q (2)

③

(4 (5 (2)

-3

∕®\

(0 Q

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(4 (5 (2)

Power indicator (green LED)

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indicator (red LEC

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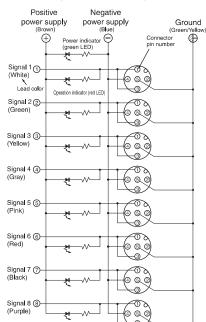
Ground

(1)

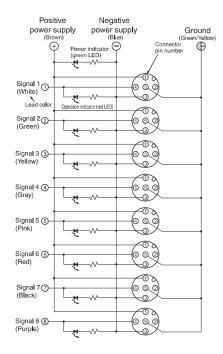
(Green/Yellow)

XW3D-P 52-11 for 2-wire DC (polarity 1-4, without polarity 3-4) Note: Cannot be used with NPN-type Photoelect

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



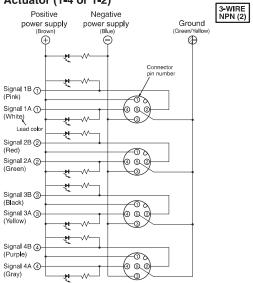
XW3D-P□53-□11 for 3-wire PNP, 2-wire DC (with polarity 1-4), and Actuator (3-4)



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

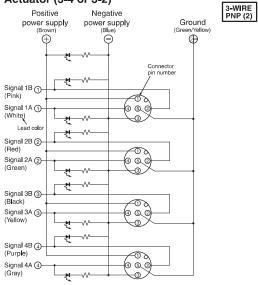
Models with Two I/O and One Port

XW3D-P458-G11 for 3-wire NPN and Actuator (1-4 or 1-2)



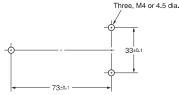
Note: Colors given in the connection diagram are lead colors.

XW3D-P457-G11 for 3-wire PNP and Actuator (3-4 or 3-2)



Mounting Dimensions

(Unit: mm)



Note: The mounting dimensions are the same regardless of the number of ports.

Safety Precautions

Precautions for Correct Use

Do not use the Connectors in an atmosphere or environment that exceeds the specifications.

Connector Connection and Disconnection

- Mate the connectors according to the procedure.
- When mating Connectors, be sure to insert the plug all the way to the back of the socket before attempting to lock the Connectors.
- Do not use tools of any sort to mate the Connectors. Always use your hands. Pliers or other tools may damage the Connectors.
- When mating the Connectors to XS2 or other M12 Connectors, tighten the lock by hand to a torque of 0.39 to 0.49 N⋅m.
- Confirm in the catalog that sensors and actuators are applicable before using them.
- Always turn OFF the power supply before connecting or disconnecting connectors.
- Do not touch the mating surface of the connectors with wet hands.
- Wipe away any water around the connectors.
- Do not allow metal scraps or dust to enter the mating section.

Cable Lead Polarity

- Connect the cables leads using the correct polarity (Blue: Negative power supply, Brown: Positive power supply).
- If the polarity is not correct, the load may not operate or the operation indicator may not light.
- Always connect a load to the signal lines to operate a sensor or actuator.

Applicable Connectors

 Always mount a Waterproof Cover (XS2Z-22) or Dust Cover (XS2Z-15) to any unused connector on the Connector Terminal Box.

Power Supply and Operation Indicators

- The power supply indicator will be lit green while power is being supplied. The operation indicator will be lit red while the sensor or actuator is operating.
- The XW3D is for a DC sensor or actuator. Do not use it for an AC sensor or actuator.
- Connector Terminal Boxes are available with either 2-wire or 3-wire internal connections, as indicated on the case.









3-WIRE PNP (2)

E3X-CN

Ordering information

Туре	Size	Features	Order code
Fiber amplifier connector	Special connector 17,8×10×15,1	4 wire; 2 m PVC cable	E3X-CN21
		3 wire; 2 m PVC cable	E3X-CN11
		2 wire slave cable; 2 m PVC	E3X-CN22*1
Fiber ampliner connector		1 wire slave cable; 2 m PVC	E3X-CN12*1
		M8 4-pin plug with 30 cm PVC cable	E3X-CN21-M3J-2 0.3M
		M12 4-pin plug with 30 cm PVC cable	E3X-CN21-M1J 0.3M

Slave connectors can be used to reduce wiring effort. The setup requires 1 master amplifier with the slave amplifiers directly mounted attached. The power supply is then provided by the master amplifier via the clipped on slave connectors. For 4-wire masters use 2-wire slaves and for 3-wire masters 1-wire slaves.

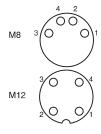
Specifications

Rated current	.5 A	
Rated voltage	50V	
Degree of protection	P50 (EC 60529)	
Ambient temperature	Groups of 1 or 2 amplifiers: –25 to 55°C	
	Groups of 3 to 10 amplifiers: –25 to 50°C	
	Groups of 11 to 16 amplifiers: –25 to 45°C	

Materials

Housing	Polybuthylene terephthalate (PBT)	
Contacts	Phosphor bronze/ gold plated/ nickel	

Pin arrangement

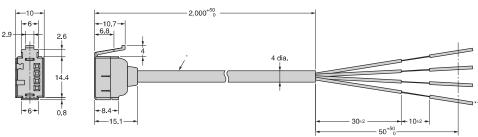


Connector	Cable colour	
1	brown	+
2	orange/white	Output 2 or ext. input
3	blue	_
4	black	Output 1
	pink	Ext. Input

Dimensions

Master connectors E3X-CN21/E3X-CN11

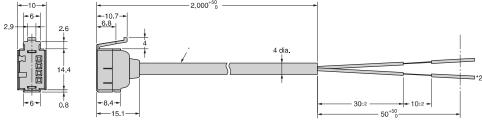




^{*} E3X-CN21: 4-dia. vinyl-insulated round cable with 4 conductors (Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm)

Slave connectors E3X-CN22/E3X-CN12





^{*} E3X-CN21: 4-dia. vinyl-insulated round cable with 4 conductors (Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm)

^{*1} Only E3X-CN21

^{*2} Only E3X-CN22

Photomicrosensor connectors



Ordering information

Туре	Size	Features	Applicable sensors	Order code
Die sammataufau saldauina	13×4×10.8	For dark on	EE-SX47/67 EE-SX97	EE-1001
Pin connector for soldering		For light on		EE-1001-1
Cable connector	13×4×13.5	standard cable		EE-1010 2M
		robotic cable		EE-1010-R 2M
	10×5.8×8	standard cable		EE-1017 1M
		robotic cable		EE-1017-R 1M
Cable connector for EE-SX91 pigtail versions	10×5.8×8	robotic cable	EE-SX91	EE-1016-R

Specifications

Rated voltage	5 to 24 VDC
Degree of protection	IP50 (IEC 60529)
Ambient temperature range	operating: –25 to 55°C
	storage: -30 to 80°C

Material

	EE-1001	EE-1010/EE-1016	EE-1017
Housing	Nylon		_
Contacts	Phosphor bronze		
Cable	_	PVC 2 m	PVC 1 m (3 m are available on request)

Pin arrangement

	EE-1001,	EE-1010	EE-	1016	EE-	1017
1	+	Brown	+	Brown	+	Brown
2	L	Pink	output 2	White	1	Black
3	out	Black	_	Blue	2	White
4	-	Blue	output 1	Black	-	Blue

Note: For the connector EE-1001-1 the pins 1(+) and 2 (L) are short circuited

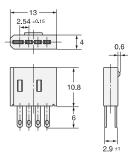
EE-1

Dimensions

Connector

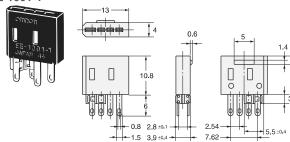
EE-1001





Connector (short-circuited between positive (+) and L terminals)

EE-1001-1



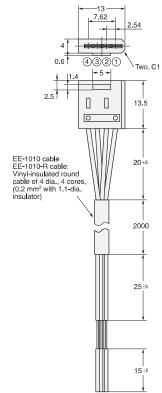
Connector with Cable

EE-1010

Connector with Robot Cable

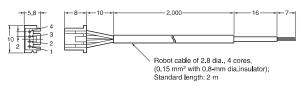
EE-1010-R





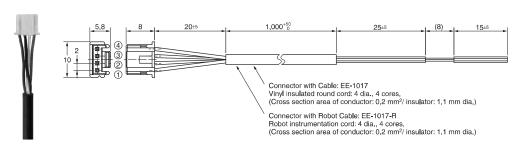
Connector with Robot Cable

EE-1016-R



Connector with Robot Cable

EE-1017-R



T-connectors, Covers, Accessories, extended wiring portfolio $\pmb{\mathsf{XS2}}$

Name	Model	Appearance	
Cable connectors with plugs	XS2W Plug connectors (Connector end)		
(open end or connector end)	XS2H Plug connectors (Open end)		
	XS2F Crimp Tool (for Crimping Connectors)		
Connector Assembly Accessories (Crimping, Soldering, or Screw-on)	XS2U Crimping pin (for XS2G/XS2C)		
	XW4Z Screwdriver (for Screw-on Connectors		
	XS2P Sockets (M12) XS3P Sockets (M8)		
Panel-mounting Connectors	XS2M Plugs (M12) XS3M Plugs (M8)	Flange-mounting Plugs	
		Screw-mounting Plugs	
T-Joints and Y-Joints Used for branching and for	ed for branching and for Connectors (M12)	T-Joints	
daisy-chain connections.		Y-Joints	
Dust covers Used to protect unused connector ports	XS2Z (M12)	Connector plugs	
	XS3Z (M8)	Connector covers	

Note: For details on these products, contact your Omron representative