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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XS, Y92E – M8 and M12 Robotic Sensor Connectors
Y92E-S_PP – Detergent and wash-down resistant polypropylene cable connectors (M8 / M12)
XS5W – Round Water-resistant Connectors (M12 Smartclick)
XS5F – Twist & click (M12)
XS2C/G, XS5C/G, Y92Econf – Confectionable plugs and connectors (self-assembly)
XW3D – Connector Terminal Boxes
E3X-CN – Fiber amplifier connectors
EE-1 – Photomicrosensor connectors
XS2 – T-connectors, Covers, Accessories, extended wiring portfolio

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	and the second s	6	Portfolio and Specs on Page
			3 pin	Duese	PVC 2 m PUR 2 m	XS3F-M8PVC3S2M XS3F-M8PUR3S2M	XS3F-M8PVC3A2M XS3F-M8PUR3A2M	-
		Pro Line		Brass (CuZn)	PVC 2 m	XS3F-M8PVC4S2M	XS3F-M8PVC4A2M	7
M8			4pin		PUR 2 m	XS3F-M8PUR4S2M	XS3F-M8PUR4A2M	
$(\circ \circ \circ)$		Lite Line	3 pin	Brass (CuZn)	PVC 2 m	XS3F-LM8PVC3S2M	XS3F-LM8PVC3A2M	9
\bigcirc		,	4 pin	()		XS3F-LM8PVC4S2M	XS3F-LM8PVC4A2M	
	B	Detergent resistant Wash-down	4 pin	Stainless steel (SUS316L)	PP ^{*1} 2 m	Y92E-S08PP4S 2M-L	Y92E-S08PP4A 2M-L	17
00		Robotic			Robotic PVC 2 m	XS3F-M421-402-R	XS3F-M422-402-R	
		(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	-
				Brass	PUR 2 m PVC 2 m	XS2F-M12PUR3S2M XS2F-M12PVC4S2M	XS2F-M12PUR3A2M XS2F-M12PVC4A2M	-
		Pro Line	4 wire	(CuZn)	PUR 2 m	XS2F-M12PUR4S2M	XS2F-M12PUR4A2M	4
M12*2					PVC 2 m	XS2F-M12PVC5S2M	XS2F-M12PVC5A2M	-
			5 wire		PUR 2 m	XS2F-M12PUR5S2M	XS2F-M12PUR5A2M	-
$\bigcirc \bigcirc $		Lite Line	3 wire	Brass	PVC 2 m	XS2F-LM12PVC3S2M	XS2F-LM12PVC3A2M	9
			4 wire	(CuZn)	1 10 2 11	XS2F-LM12PVC4S2M	XS2F-LM12PVC4A2M	
	LED	3 wire	Nickel	PVC 2 m	-	XS2F-M12PVC3A2MPLED	-	
		(power and output LED, PNP/NPN)	4 wire 3 wire	plated		-	XS2F-M12PVC4A2MPLED XS2F-M12PUR3A2MPLED	4
			4 wire	brass	PUR 2 m	_	XS2F-M12PUR3A2MPLED	-
	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	
		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	
	No. Co.	(drag chain)	4 wire	Brass	Robotic PUR 2 m	Y92E-M12PUR4S2M-L	Y92E-M12PUR4A2M-L	13
	* *	High robotic (drag chain & torsion)		(CuZn)	High grade robotic PUR 2 m	Y92E-M12PUR4S2M-R	Y92E-M12PUR4A2M-R	
$4 \begin{array}{c} 5 \\ 0 \\ 0 \\ 0 \\ 2 \\ 8 \end{array} \begin{array}{c} 6 \\ 7 \\ 7 \\ 1 \end{array}$		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
	8		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	r code	Extended
Size Shape Typ	Туре	Features	Nut	Cable	and the second s		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	ŢŢŢ	Field I/0 boxes	Direct wiring or DeviceNet communi- cation	_		XW3D		31
M8/M12	50	T-connec- tors, covers, accessories and extended wiring portfo- lio	n.a.	-		XS2R, XS3R, XY2F,		35

*1 *2

PP - polypropylene For 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-M12		
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					

LED Type is 5.4 mm dia.

Connector Pinout Diagram (from Mating Side)

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

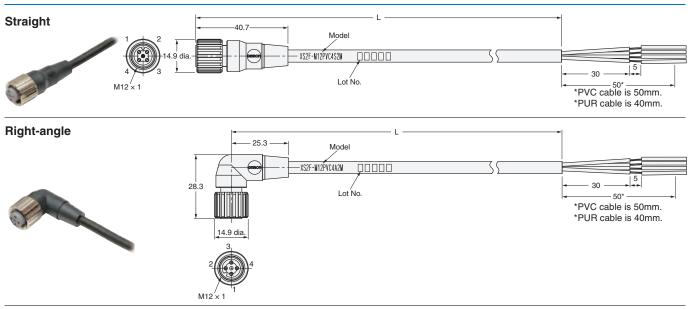
PUR Cable

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			

(Unit: mm)

XS2F-M12PVC M PVC cable XS2F-M12PVR M PVR cable

Dimensions



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

Wiring Diagram

3 C	ores	4 C	Cores
Contact No.	Cable lead colors Brown Blue Black	Contact No.	Cable lead colors Brown White Blue Black

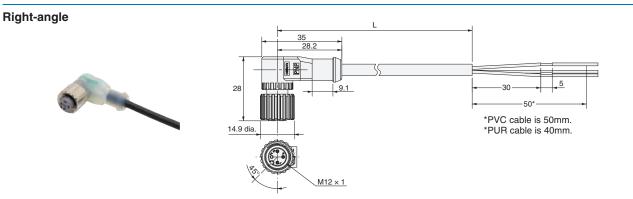
Ordering Information

Cable type	No. of cable cores	Cable outer diameter	Cable connection direction	Cable length (m)	Model
				2	XS2F-M12PVC3S2M
			Straight	5	XS2F-M12PVC3S5M
	3			10	XS2F-M12PVC3S10M
	3			2	XS2F-M12PVC3A2M
			Right-angle	5	XS2F-M12PVC3A5M
				10	XS2F-M12PVC3A10M
VC		5.0 dia		2	XS2F-M12PVC4S2M
vc		5.0 01a	Stroight	5	XS2F-M12PVC4S5M
			Straight	7	XS2F-M12PVC4S7M
	4			10	XS2F-M12PVC4S10M
			Right-angle	2	XS2F-M12PVC4A2M
				5	XS2F-M12PVC4A5M
				7	XS2F-M12PVC4A7M
				10	XS2F-M12PVC4A10M
	3	4.3 dia	Straight	2	XS2F-M12PUR3S2M
				5	XS2F-M12PUR3S5M
				10	XS2F-M12PUR3S10M
			Right-angle	2	XS2F-M12PUR3A2M
				5	XS2F-M12PUR3A5M
UR				10	XS2F-M12PUR3A10M
UN				2	XS2F-M12PUR4S2M
			Straight	5	XS2F-M12PUR4S5M
	4	4 7 dia		10	XS2F-M12PUR4S10M
	4	4.7 dia		2	XS2F-M12PUR4A2M
			Right-angle	5	XS2F-M12PUR4A5M
				10	XS2F-M12PUR4A10M

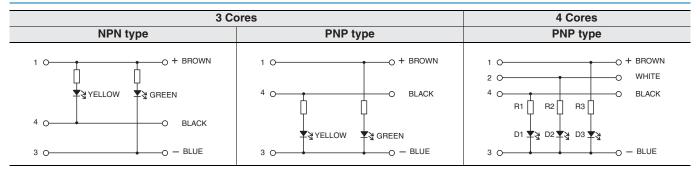
XS2F M12 Sockets on One Cable End with LED XS2F-M12PVC A M LED PVC Cable XS2F-M12PUR A M LED PUR Cable

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-M12PVC3A2MPLED	
				5	XS2F-M12PVC3A5MPLED	PNP
	3	5.0 dia.		10	XS2F-M12PVC3A10MPLED	
	3	5.0 ula.		2	XS2F-M12PVC3A2MNLED	
PVC			Right-angle	5	XS2F-M12PVC3A5MNLED	NPN
				10	XS2F-M12PVC3A10MNLED	
	4			2	XS2F-M12PVC4A2MPLED	-
		5.4 dia		5	XS2F-M12PVC4A5MPLED	
				10	XS2F-M12PVC4A10MPLED	
				2	XS2F-M12PUR3A2MPLED	
	3	4.3 dia		5	XS2F-M12PUR3A5MPLED	PNP
PUR				10	XS2F-M12PUR3A10MPLED	
PUR				2	XS2F-M12PUR4A2MPLED	
	4	4.7 dia		5	XS2F-M12PUR4A5MPLED	
				10	XS2F-M12PUR4A10MPLED	1

M8 Basic line Cable type

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	Halogen free				

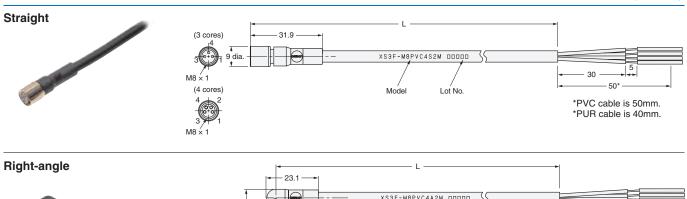
Connector Pinout Diagram (from Mating Side)

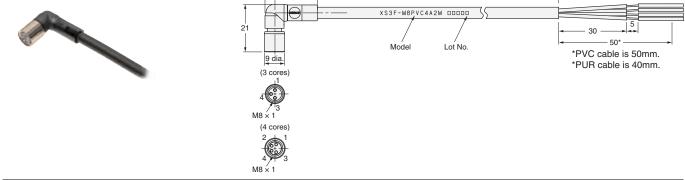
Item	Poles	3 poles	4 poles
DC	Male (plug) contacts		
	Female (socket) contacts		

XS3F-M8PVC M PVC cable XS3F-M8PUR M PUR cable

Dimensions

(Unit: mm)





Wiring Diagram

3	3 Cores	4 Cores		
Contact No.	Cable lead colors Brown Biue Biack	Contact No.	Cable lead colors Brown Blue Black	

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		5.0 dia.		10	XS3F-M8PVC3A10M
- 10		- 5.0 ula.		2	XS3F-M8PVC4S2M
			Straight	5	XS3F-M8PVC4S5M
4			10	XS3F-M8PVC4S10M	
			2	XS3F-M8PVC4A2M	
			Right-angle	5	XS3F-M8PVC4A5M
				10	XS3F-M8PVC4A10M
		4.3 dia	Straight	2	XS3F-M8PUR3S2M
				5	XS3F-M8PUR3S5M
	3			10	XS3F-M8PUR3S10M
	3		Right-angle	2	XS3F-M8PUR3A2M
				5	XS3F-M8PUR3A5M
VUR				10	XS3F-M8PUR3A10M
UN				2	XS3F-M8PUR4S2M
			Straight	5	XS3F-M8PUR4S5M
	4	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



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		o .		5 m	XS3F-LM8PVC3S5M
		36001		3-wire		2 m	XS3F-LM8PVC3A2M
		\bigcirc				5 m	XS3F-LM8PVC3A5M
		4 2				2 m	XS3F-LM8PVC4S2M
	3 M12	30001		4-wire		5 m	XS3F-LM8PVC4S5M
2		3004 2001				2 m	XS3F-LM8PVC4A2M
Sensor connector with open cable end			DVC			5 m	XS3F-LM8PVC4A5M
for standard factory			- PVC	3-wire	Contraction of the second	2 m	XS2F-LM12PVC3S2M
environments						5 m	XS2F-LM12PVC3S5M
						2 m	XS2F-LM12PVC3A2M
						5 m	XS2F-LM12PVC3A5M
						2 m	XS2F-LM12PVC4S2M
				4	1	5 m	XS2F-LM12PVC4S5M
				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

M8 3-wire	M8 3-wire M8 4-wire M12 3-wire		M12 4-wire		
$3 \bigcirc 0 & 1 = brown \\ 3 = blue \\ 4 = black$	$3 \bigcirc 0 \bigcirc 1 = brown$ $3 \bigcirc 0 \bigcirc 1 = brown$ $3 = blue$ $4 = black$	$\begin{array}{c} 3 \\ 0 \\ 2 \\ 2 \\ 0 \\ 2 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$3 \bigcirc 0 4$ 1 = brown 2 = white 3 = blue 2 \bigcirc 0 1 4 = black		

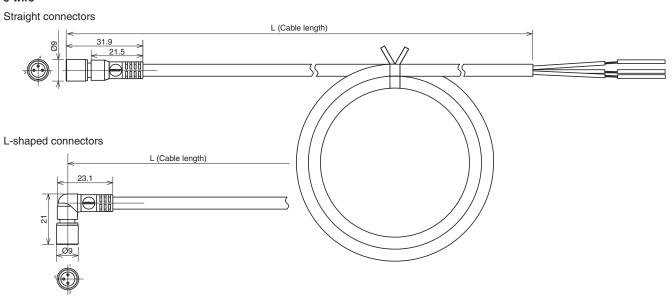
XS_-L

Dimensions

XS3F

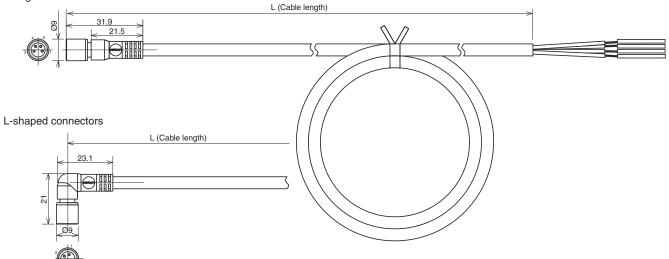
M8 Screw-on cable connectors

3-wire



4-wire

Straight connectors

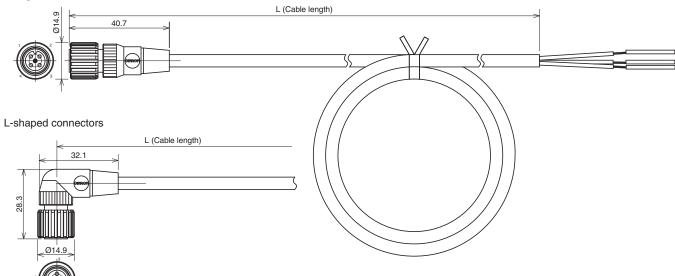


XS2F

M12 Screw-on cable connectors

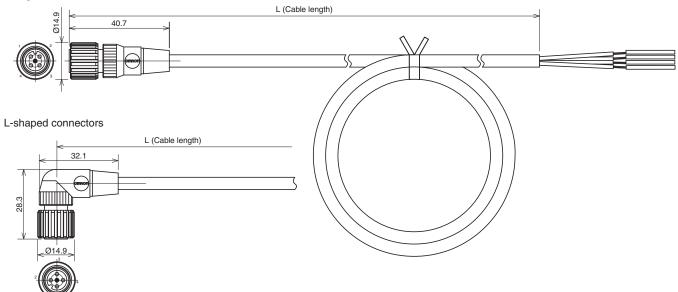
3-wire





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					
ensor connector with					5 m	Y92E-M12PURSH8S5M-L					
pen cable end			8-pin, outer shielding layer			10 m	Y92E-M12PURSH8S10M-L				
				25 m	Y92E-M12PURSH8S25M-L						
		PUR			0.6 m	Y92E-M12FSM12MSPURSH806M-L					
emale-male extension	M12	FUN			2 m	Y92E-M12FSM12MSPURSH82M-L					
onnector				1		Į.				5 m	Y92E-M12FSM12MSPURSH85M-L
					10 m	Y92E-M12FSM12MSPURSH810M-L					
lale-male extension	1					0.3 m	Y92E-M12MSM12MSPURSH80.3M-L				
onnector					0.9 m	Y92E-M12MSM12MSPURSH80.9M-L					

Specifications

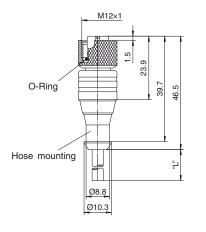
		Y92E-M12_8
Wire size		0.25 mm ²
Rated current		4 A
Rated voltage		30 VDC
Degree of protection		IEC 60529: IP67
Ambient temperature		-25°C to 80°C
Rated standards		AWM 21198
	Flame retardant	IEC 60332-2-2 CSA FT2
	Halone free	IEC 60754-1
	RoHS	2002/95/EC

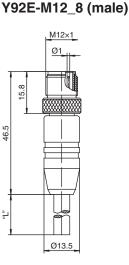
Dimensions

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

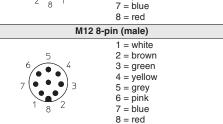
Pin arrangement

Y92E-M12_8 (female)





$\begin{array}{c} \textbf{M12 8-pin (female)} \\ 1 = \text{white} \\ 2 = \text{brown} \\ 3 = \text{green} \\ 4 = \text{yellow} \\ 3 \oplus 0 \oplus 0 \\ 2 \oplus 1 \\ 8 \oplus 1 \\ 7 = \text{blue} \end{array}$



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
- $\bullet > 5$ Mio drag chain bending and > 10 Mio torsion performance PUR models



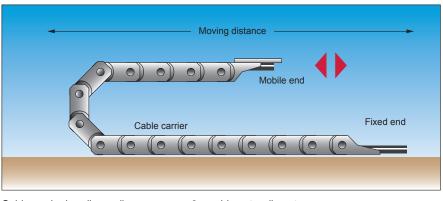
Ordering Information

Туре	Size	Cable material	Bending performance (drag chain)	Torsion performance	Features	Shape	Cable length	Order code
							2 m	XS3F-M421-402-R
		PVC					5 m	XS3F-M421-405-R
	M8	FVC					2 m	XS3F-M422-402-R
	4 2						5 m	XS3F-M422-405-R
	3(O O)1						2 m	Y92E-M08PUR4S2M-L
		PUR					5 m	Y92E-M08PUR4S5M-L
Sensor		PUR					2 m	Y92E-M08PUR4A2M-L
connector with			> 2 Mio	(not on opified)			5 m	Y92E-M08PUR4A5M-L
open cable end and robotic		W12 10 0 0 4 0 0 5 4 PVC PVC PVC PVC	> 2 1010	(not specified)			2 m	XS2F-D421-D80-F
cable					4-wire	1	5 m	XS2F-D421-G80-F
	M12						2 m	XS2F-D422-D80-F
	10 02						5 m	XS2F-D422-G80-F
							2 m	Y92E-M12PUR4S2M-L
	4003					1	5 m	Y92E-M12PUR4S5M-L
							2 m	Y92E-M12PUR4A2M-L
						6	5 m	Y92E-M12PUR4A5M-L
	M8			1		2 m	Y92E-M08PUR4S2M-R	
	4 2						5 m	Y92E-M08PUR4S5M-R
Sensor	$3(O O)^1$						2 m	Y92E-M08PUR4A2M-R
connector with open cable end		PUR	> 5 Mio	> 10 Mio			5 m	Y92E-M08PUR4A5M-R
and high grade	M12	PUR		> 10 1010			2 m	Y92E-M12PUR4S2M-R
high grade robotic cable	10 08					1	5 m	Y92E-M12PUR4S5M-R
							2 m	Y92E-M12PUR4A2M-R
	400/3						5 m	Y92E-M12PUR4A5M-R

XS, **Y92E**

Bending and torsion performance

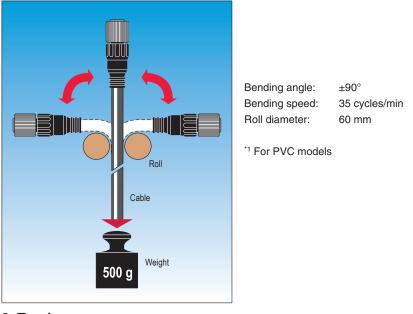
The bending and torsion performance of the robotic sensor connectors has been tested using the below test methods. **1. Bending (drag chain)**



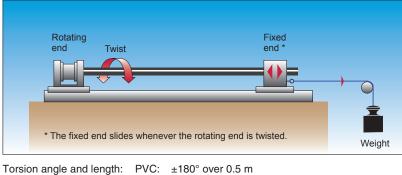
Cable carrier bending radius: Movement speed: PVC: PUR:

approx. 9 × cable outer diameter 120 m/min (max) 200 m/min (max); max 5 m/s²

2. Bending (left - right)^{*1}



3. Torsion



Ind length: PVC: ±180° over 0.5 PUR: ±360° over 1 m

XS, Y92E

Specifications

		Robo	tic PVC	R	obotic PUR	High gr	ade robotic PUR
		XS3FR	XS2FF	١	Y92E-ML		/92E-MR
		M8	M12	M8	M12	M8	M12
Wire size		0.25 mm ²	0.34 mm ²				·
Rated current		1A	4A				
Rated voltage		125 VDC	-i	30 VDC	240 VDC	30 VDC	240 VDC
Degree of protection		IEC 60529: IP67					
_	Fixed			-50°C to 80°C			
Ambient	Moving			–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			
	Halone free	-		IEC 60754-1			
	RoHS	2002/95/EC					

Pin arrangement

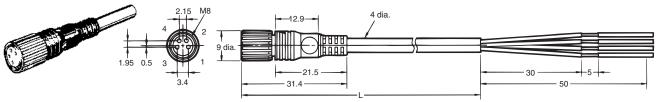
M8 4-pin	M12 4-wire
$3 \bigcirc 0 \bigcirc 1$ $3 \bigcirc 0 \bigcirc 1$ $1 = brown$ $3 = blue$ $4 = black$	1 = brown $2 = white$ $3 = blue$ $4 = black$ $5 = n.c.$

Dimensions

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

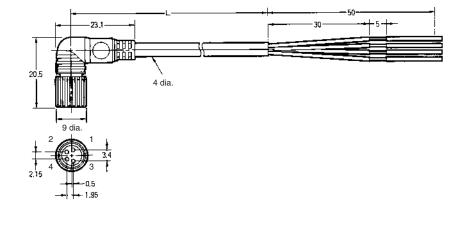
XS3F-_-R

Straight Connectors

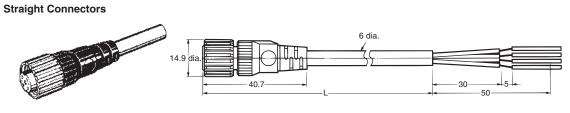


L-shaped Connectors



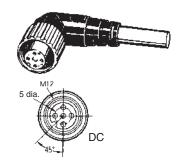


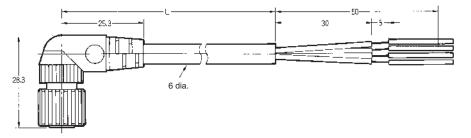
XS2F-_-F





L-shaped Connectors





Y92E-M08_

Straight Connectors



L-shaped Connectors



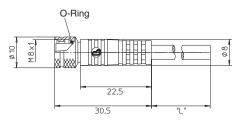
Y92E-M12_

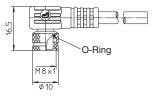
Straight Connectors

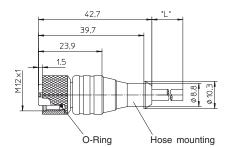


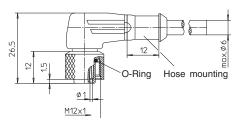
L-shaped Connectors











Detergent and wash-down resistant polypropylene cable connectors (M8 / M12)

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

Turno	Size	Mat	erial	Features	Shape	Length	Order code
Туре	5120	Nut	Cable	reatures	Shape	Length (m) ^{*1}	Order code
					Angled	2	Y92E-S08PP3A 2M
		SUS 316L	PP (Polypropylene)	3 pin	Angleu	5	Y92E-S08PP3A 5M
				3 pm	Straight	2	Y92E-S08PP3S 2M
	M8				Straight	5	Y92E-S08PP3S 5M
					Angled	2	Y92E-S08PP4A 2M
Detergent resistant				ropylene) 4 pin		5	Y92E-S08PP4A 5M
Wash-down					Straight	2	Y92E-S08PP4S 2M
						5	Y92E-S08PP4S 5M
M12					Anglad	2	Y92E-S12PP4A 2M
				Angled	5	Y92E-S12PP4A 5M	
				Stroight	2	Y92E-S12PP4S 2M	
					Straight	5	Y92E-S12PP4S 5M

*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 pin		M12 4 pin	
$3 \bigcirc 0 \bigcirc 1$ $3 \bigcirc 0 \bigcirc 1$ $1 = brown$ $3 = blue$ $4 = black$		1 = brown 2 = white 3 = blue 4 = black	$3 \bigcirc 0 4$ $\bigcirc 5 \\ 2 \bigcirc 0 1$	1 = brown 2 = white 3 = blue 4 = black 5 = n.c.

Materials

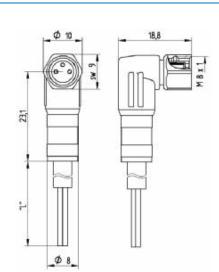
materiale	
Pin block	PP, white (Polypropylene)
Contacts	Cu/Au, 0.3 µm gold plating
Fixture	Stainless steel
Cover	PP (Polypropylene)
O-ring	EPDM
Cable sheath	TPE (Thermoplastic elastomers)

Y92E-S_PP

Dimensions

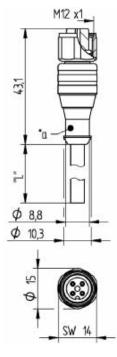
Y92E-S08PP





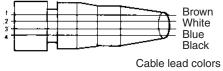


Y92E-S12PP



Wiring Diagram (M8 and M12)

Contact No.



Round Water-resistant Connectors (M12 Smartclick)

XS5W

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	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
Contacts	Finish	Nickel base, 0.4-µn	n gold plating				Nickel base, 0.15- µm gold plating
Fixture	s	Nickel-plated zinc a	alloy				
Fixture	es (Lock) *	Stainless					
Pin blo	ck	PBT resin (UL94V-	0)				
O-ring		Rubber					
Overm	olding/Cover	Soft PBT resin (UL	94V-0)		PBT resin (UL94V-	0)	
	Fire-retardant, Robot cable	UL AWM2464 CL3 AWG20 (0.5mm ²) Structure: 0.08 mm			1		
Cable	Oil-resistant polyurethane cable	6 mm dia. AWG20 (0.5mm ²) Structure: 0.12 mm/45 wires					
	Spatter-resis- tant Cable	6.6 mm dia. AWG20 (0.5mm ²) Structure: 0.08 mm	/100 wires				
Seal re	sin			Epoxy resin (UL94V-0)			
Power	supply wires			UL1007 AWG20			

*Only plug

Connector Pinout Diagram (from Mating Side)

Item	No. of poles	4 poles
	Male (plug) contacts	$ \begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 2 & 0 \\ 0 & 3 \end{pmatrix} $
DC type	Female (socket) contacts	

Connection Combinations

OMRON model No.		Smartclick Plug Connectors XS5H, XS5G, XS5W (plug side),	M12 Plug Connectors XS2H, XS2G, XS2W (plug side),	
		XS5R (plug side), XS5M	XS2R (plug side), XS2M	
Smartclick Socket Connectors	XS5F, XS5C, XS5W (socket side), XS5R (socket side), XS5P	۲	0	
M12 Socket Connectors	XS2F, XS2C, XS2W (socket side), XS2R (socket side), XS2P	О	0	

Smartclick is a registered trademark of the OMRON Corporation.

Connected by twisting.

O: Connected by screwing.

Note: The XS M and XS P cannot mate with each other.

XS5W

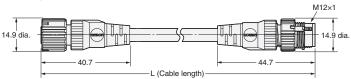
©martclick **XS5W** connectors Connected to Cable, Socket and Plug on Cable Ends

• Fire-retardant, Robot cable

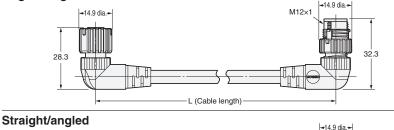
- Oil-resistant Polyurethane Cable
- Spatter-resistant Cable

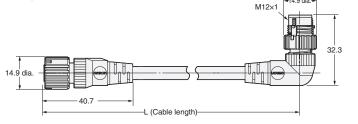
Dimensions

Straight/straight



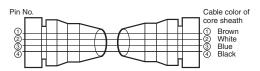




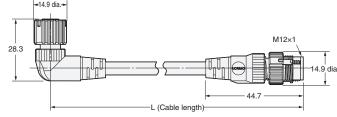




Wiring Diagram for 4 Cores



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.



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)

Ordering Information

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

6. Cable Length

C: 1 m	D: 2 m	E: 3 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

Cable apositions	Cable	Cable outer	Straight/straight	Angled/angled	Minimum	UL
Cable specifications	length L (m)	diameter (mm)	Мо	del	order	UL
	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
Gubic	5	6	XS5W-D421-G81-F	XS5W-D422-G81-F		
	10	ю	XS5W-D421-J81-F		1	
	2		XS5W-D421-D81-P		F	
Oil-resistant Polyure- thane Cable	5		XS5W-D421-G81-P		5	
thane Gable	10		XS5W-D421-J81-P		1	
Spatter-resistant	2		XS5W-D421-D81-SA		F	
Cable	5	6.6	XS5W-D421-G81-SA		5	
			Straight (Socket)/	Angled (Socket)/		
Cable specifications	Cable length L (m)	Cable outer diameter (mm)	angled (Plug)	straight (Plug)	Minimum order	UL
	iciigui E (iii)	diameter (mm)	Мо	del	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	5	165

Twist & click (M12)

Ordering information

Туре	Size	Material		Features	Shape	Longth (m)	Order code
		Nut	Cable	reatures	Shape	Length (m)	Order code
Twist & Click ^{*1}	M12 Brass	Brass PVC ^{*2}	DV/C*2	PVC ^{*2} For standard 4 pin or Omron Smartclick connectors	Angled	2	XS5F-D422-D80-F
						5	XS5F-D422-G80-F
			FVC		Straight	2	XS5F-D421-D80-F
						5	XS5F-D421-G80-F

¹¹ 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.

*2 For PUR models replace -F by -P in the order code

Specifications

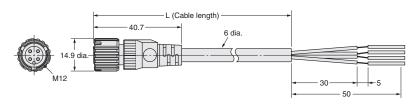
Rated current	4A
Rated voltage	125 VDC, 250 VAC
Degree of protection	IP67 (IEC 60529)
Ambient temperature	-25°C to 70°C

Pin arrangement

	M12 4 poles	
$ \begin{array}{c} 3 & \bigcirc & \bigcirc & 4 \\ & \bigcirc & 5 \\ 2 & \bigcirc & \bigcirc & 1 \end{array} $	1 = brown 2 = white 3 = blue 4 = black 5 = n.c.	

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

Dimensions



Confectionable plugs and connectors (self-assembly) XS2C/G, XS5C/G, Y92E-_-conf

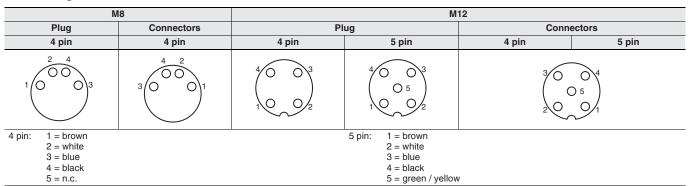
Ordering information

Туре	Size	Material Nut	Features		Shape	Order code
	M8		3 pin	3 pin		Y92E-MM08PVC3Sconf-L
	IVIO		4 pin		straight	Y92E-MM08PVC4Sconf-L
				IDC		XS5G-D418
			1 nin	crimp	straight	XS2G-D4C3
			4 pin	solder		XS2G-D423
Plug (male)				solder	angled	XS2G-D424
	M12		E nin	o or our five	straight	XS2G-D5S1
			5 pin	screw fix	angled	XS2G-D5S2
		Polyester elastomer	4 pin twist & click (for 4-5 mm cables)	screw fix	straight	XS2G-D4S3
					angled	XS2G-D4S4
	M8		3 pin		straight	Y92E-M08PVC3Sconf-L
	IVIO		4 pin			Y92E-M08PVC4Sconf-L
				IDC		XS5C-D418
				crimp	straight	XS2C-D4C3
Connector (female)			4 pin	solder		XS2C-D423
	M12			crimp	a se al a al	XS2C-D4C4
				solder	angled	XS2C-D424
			5 pin	corow fix	straight	XS2C-D5S1
				screw fix	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



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	Cush, hicker base, 0.5 µm gold plating	Brass/nickel base	
Cover	PVC	PBT resin (UL94V-0)	
O-ring	FKM	Rubber	

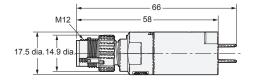
XS2C/G, XS5C/G, Y92E-_-conf

Dimensions

Plugs (male) XS5G-D418 (IDC Model, Straight)



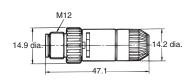




XS2G-D4C (Crimping Model, Straight), XS2G-D42 (Soldering Model, Straight)



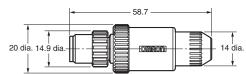




XS2G-D5S1 (Screw-on model, Straight)



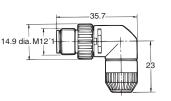




XS2G-D42 (Soldering Model, L-shaped)

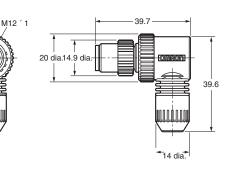




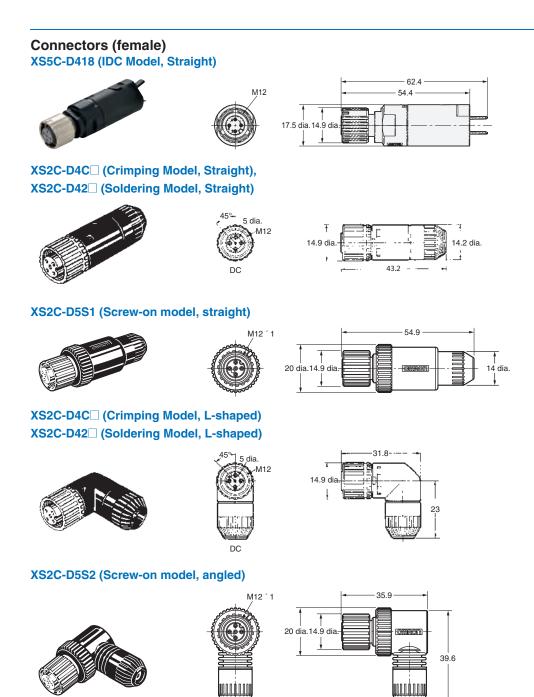


XS2G-D5S2 (Screw-on model, angled)





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





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Connector Terminal Boxes

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

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

○: Connected by Semartclick.

O: Connected by screwing.

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XW3D

Ordering Information

Sensor type 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
Actuator 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. 2. All cables are 5 m long.

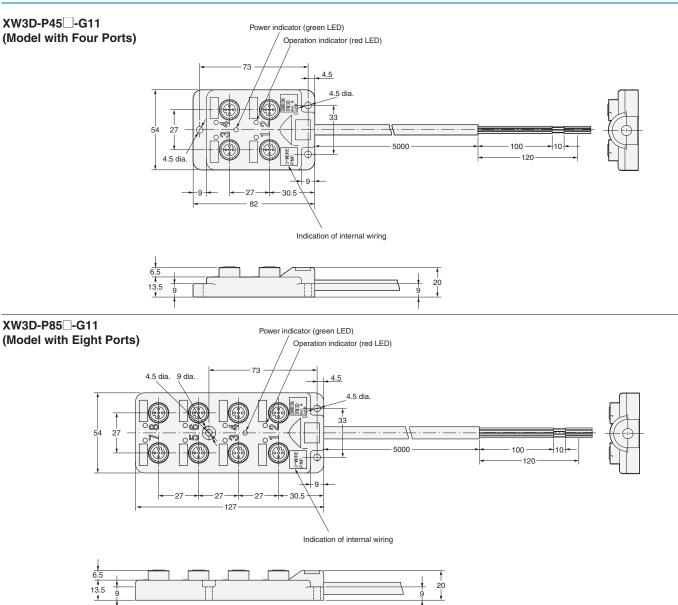
Waterproof Cover (Sold Separately)

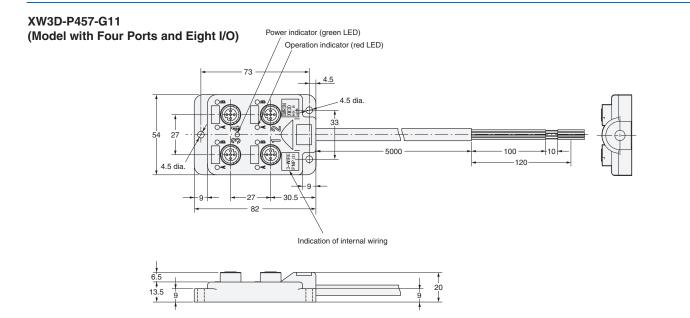
Appearance	Model	No. per box	Material	
	XS5Z-11	50	PBT	
	XS2Z-22	50	Brass with Ni plating	

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.

(Unit: mm)

Dimensions

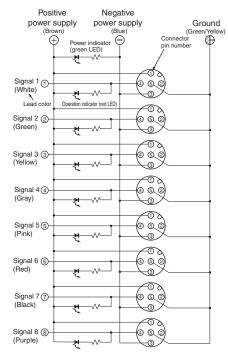




Wiring Diagrams

Models with One I/O and One Port

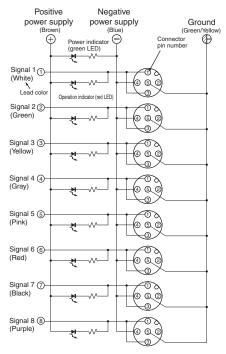
XW3D-P 55-11 3-WIRE NPN for 3-wire NPN, 2-wire DC (without polarity 3-4), and Actuator (1-4)



XW3D-P 52-11 for 2-wire DC

(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.

2-WIRE



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



Positive Negative power supply power supply Ground (Green/Yell (B Conne (+) Θ Power indica (green LED) ₹ Signal 1 (White) 3 \sim Ł Lead co indicator (red LED) Op 10 Signal 2 2 (Green) 600 ¥ -~~ -0, Signal 3 ③ (Yellow) -3 الج <u>_</u>_____ @ 5.0 Signal 4 (4) (Gray) کا -~~ -3 -02 0 0 0 Signal 5 (5) (Pink) -0 ł - **0** \ @ @ @ Signal 6 6 (Red) 컨 -~ -3 Signal 7 (7) (Black) Ł w -3 <u>_</u> @ & @ Signal 8 (8) (Purple) -3. ۶ł N

Note 1. The above wiring diagrams are for eight-port use.

2. Figures in parentheses indicate lead colors.

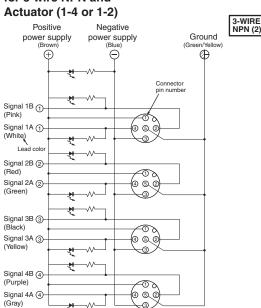
3. The expression "white/red" means white and red stripes. 4. Here, "1-4" and "3-4" are pin numbers.

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.

XW3D

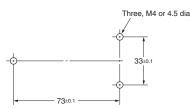
Models with Two I/O and One Port

XW3D-P458-G11 for 3-wire NPN and



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

Mounting Dimensions



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

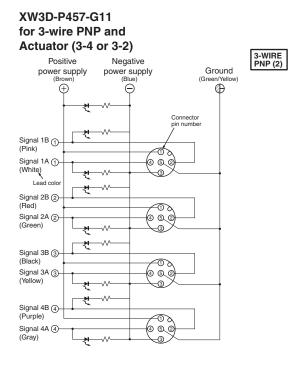
Safety Precautions

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.



(Unit: mm)

Cable Lead Polarity

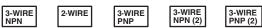
- Connect the cables leads using the correct polarity (Blue: Negative power supply, Brown: Positive power supply).
- If the polarity is not correct, the load may not operate or the operation indicator may not light.
- Always connect a load to the signal lines to operate a sensor or actuator.

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.



OMRON

Fiber amplifier connectors **E3X-CN**

Ordering information

Туре	Size	Features	Order code	
Fiber amplifier connector		4 wire; 2 m PVC cable	E3X-CN21	
	Special connector 17,8×10×15,1	3 wire; 2 m PVC cable	E3X-CN11	
		2 wire slave cable; 2 m PVC	E3X-CN22 ^{*1}	
		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	

*1 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	2.5 A		
Rated voltage	50V		
Degree of protection	IP50 (EC 60529)		
	Groups of 1 or 2 amplifiers: -25 to 55°C		
Ambient temperature	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

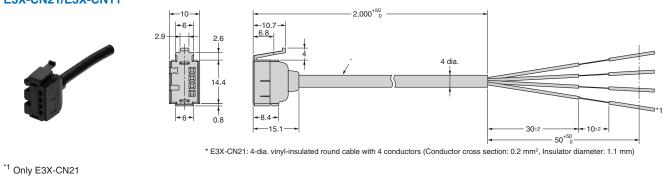
Pin arrangement

	4 2	Connector	Cable colour	
M8	3001	1	brown	+
		2	orange/white	Output 2 or ext. input
	3 0 4	3	blue	-
M12	$\begin{pmatrix} \cup & \cup \\ & & \end{pmatrix}$	4	black	Output 1
	2001		pink	Ext. Input

E3X-CN

Dimensions

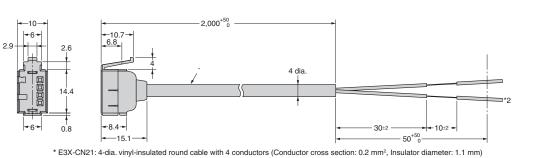
Master connectors E3X-CN21/E3X-CN11



¹ Only E3X-CN21

Slave connectors E3X-CN22/E3X-CN12





*2 Only E3X-CN22

Ordering information

Туре	Size	Features	Applicable sensors	Order code
Dia anna atau fan an Islania a	13×4×10.8	For dark on	EE-SX47/67	EE-1001
Pin connector for soldering		For light on		EE-1001-1
Cable connector	13×4×13.5	standard cable		EE-1010 2M
	13x4x13.5	robotic cable		EE-1010-R 2M
	10×5 8×8	standard cable	- EE-SX97	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)
	operating: -25 to 55°C
Ambient temperature range	storage: -30 to 80°C

Material

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

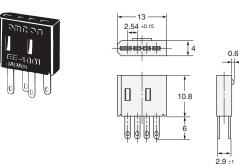
Pin arrangement

	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

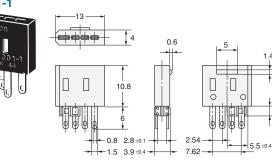
Note: For the connector EE-1001-1 the pins 1(+) and 2 (L) are short circuited

EE-1 Dimensions

Connector EE-1001

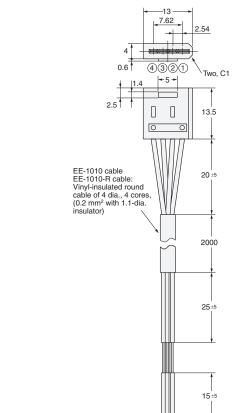


Connector (short-circuited between positive (+) and L terminals) EE-1001-1

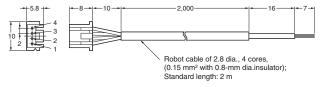


Connector with Cable EE-1010

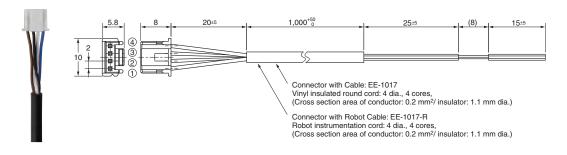
Connector with Robot Cable EE-1010-R



Connector with Robot Cable EE-1016-R



Connector with Robot Cable EE-1017-R



T-connectors, Covers, Accessories, extended wiring portfolio 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	A Desire	
	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	XS2R T-Joint/Y-Joint Plug/Socket Connectors (M12) XS3R Y-Joint Plug/Socket Connectors (M8)	T-Joints	
		Y-Joints	
Dust covers Used to protect unused connector ports	XS2Z (M12)	Connector plugs	
	XS3Z (M8)	Connector covers	63

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

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OMRON EUROPE B.V.

Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands Phone: +31 23 568 13 00 Fax: +31 23 568 13 88 industrial.omron.eu

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