## 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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<b>XS, Y92E</b> – 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)
<b>XS5F</b> – 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	rial	Orde	r code	Extended	
Size	Shape	Туре	Features	Nut	Cable	and the second s		Portfolio and Specs on Page	
			3 pin	Droop	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	
MO			4pin		PUR 2 m	XS3F-M8PUR4S2M	XS3F-M8PUR4A2M	-	
M8		Lite Line	3 pin	Brass	PVC 2 m	XS3F-LM8PVC3S2M	XS3F-LM8PVC3A2M	9	
$\bigcirc$			4 pin	(CuZn)		XS3F-LM8PVC4S2M	XS3F-LM8PVC4A2M		
	R	Detergent resistant Wash-down	4 pin	Stainless steel (SUS316L)	PP <sup>*1</sup> 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	-	
				Draci	PUR 2 m PVC 2 m	XS2F-M12PUR3S2M XS2F-M12PVC4S2M	XS2F-M12PUR3A2M XS2F-M12PVC4A2M	-	
		Pro Line	4 wire	Brass (CuZn)	PVC 2 m PUR 2 m	XS2F-M12PVC4S2M XS2F-M12PUR4S2M	XS2F-M12PVC4A2M XS2F-M12PUR4A2M	4	
M12 <sup>*2</sup>				(002.1)	PVC 2 m	XS2F-M12PVC5S2M	XS2F-M12PVC5A2M	-	
_			5 wire		PUR 2 m	XS2F-M12PUR5S2M	XS2F-M12PUR5A2M	-	
$\begin{pmatrix} \circ \\ \circ $			3 wire	Brass	PVC 2 m	XS2F-LM12PVC3S2M	XS2F-LM12PVC3A2M		
0		Lite Line		4 wire	(CuZn)	FVG 2 III	XS2F-LM12PVC4S2M	XS2F-LM12PVC4A2M	- 9
	1	LED	3 wire	Nickel	PVC 2 m	-	XS2F-M12PVC3A2MPLED		
		(power and	4 wire	plated		-	XS2F-M12PVC4A2MPLED	4	
	Open - Carlo	output LED, PNP/NPN)	3 wire 4 wire	brass	PUR 2 m	-	XS2F-M12PUR3A2MPLED XS2F-M12PUR4A2MPLED	-	
	6	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	
	Contraction of the local division of the loc				PVC 2 m	XS5F-D421-D80-F	XS5F-D422-D80-F		
	THE CONTRACT OF STREET	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)		(CuZn)	High grade robotic PUR 2 m	Y92E-M12PUR4S2M-R	Y92E-M12PUR4A2M-R		
$\begin{array}{c} 4 & 5 \\ 3 & 0 & 0 \\ 2 & 8 \\ \end{array}$		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	
			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	Orde	r code	Extended
Size	Shape	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	<i>₽₽₽</i>	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 <sup>2</sup> (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	$\begin{pmatrix} 0 & 0 & 1 \\ 0 & 0 & 0 \\ 2 & 0 & 3 \end{pmatrix}$
Do type	Female (socket) contacts	

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**PUR Cable** 

Outer diameter

Conductor size

Approvals

Features

3 cores

AWG22 0.32 mm<sup>2</sup> (42/0.1)

Black

4.3 mm dia.

AWM20936 Flame retardant

Halogen free Oil resistance

4 cores

4.7 mm dia.

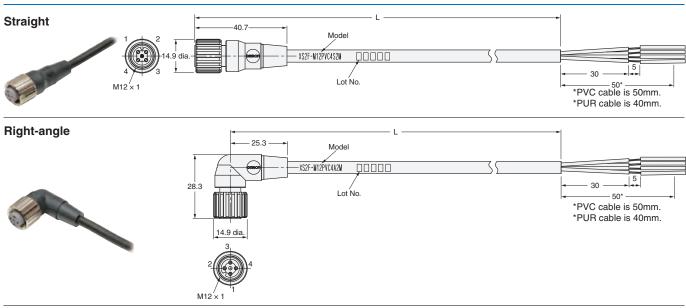
Item

Color

(Unit: mm)

## XS2F-M12PVC M PVC cable XS2F-M12PVC M PVC cable XS2F-M12PUR M PUR cable

#### **Dimensions**



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

#### Wiring Diagram

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

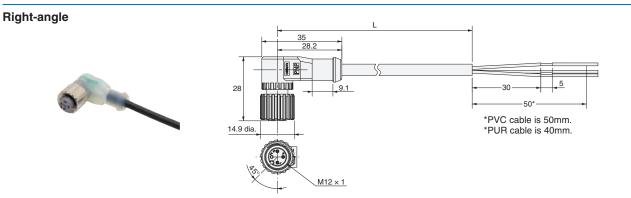
## **Ordering Information**

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 ula	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
	3	4.3 dia	Straight	2	XS2F-M12PUR3S2M
				5	XS2F-M12PUR3S5M
				10	XS2F-M12PUR3S10M
			Right-angle	2	XS2F-M12PUR3A2M
				5	XS2F-M12PUR3A5M
PUR				10	XS2F-M12PUR3A10M
Un				2	XS2F-M12PUR4S2M
			Straight	5	XS2F-M12PUR4S5M
	4	4.7 dia		10	XS2F-M12PUR4S10M
	4	4.7 uid		2	XS2F-M12PUR4A2M
			Right-angle	5	XS2F-M12PUR4A5M
				10	XS2F-M12PUR4A10M

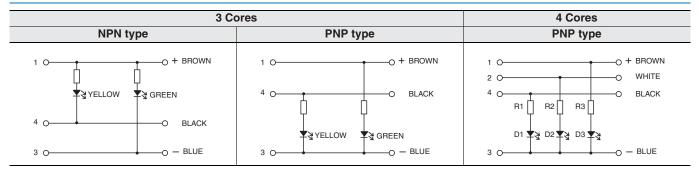
# XS2F-M12PVC A M LED PVC Cable End with LED XS2F-M12PVC A M LED PVC Cable XS2F-M12PUR A M LED PUR Cable

#### **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	1
	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						

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# 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 <sup>2</sup> (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 <sup>2</sup> (42/0.1)				
Approvals	AWM20936				
Features	Flame retardant Halogen free Oil resistance				

## **Connector Pinout Diagram (from Mating Side)**

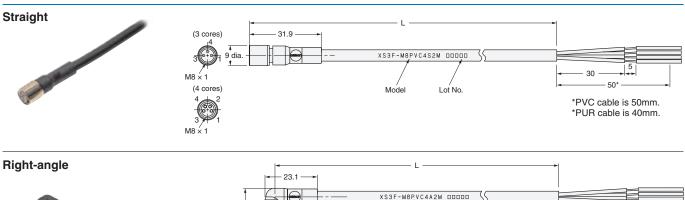
Item	Poles	3 poles	4 poles
DC	Male (plug) contacts		
DC	Female (socket) contacts		

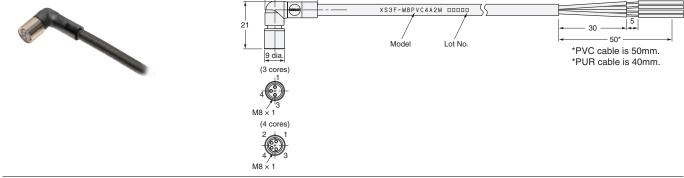
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## XS3F-M8PVC M PVC cable XS3F-M8PUR M PVC cable

#### **Dimensions**

(Unit: mm)





## Wiring Diagram

3	Cores	4 Cores		
Contact No.	Cable lead colors Brown Blue Black	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
PVC 4	3			2	XS3F-M8PVC3A2M
			Right-angle	5	XS3F-M8PVC3A5M
		5.0 dia.		10	XS3F-M8PVC3A10M
		- 5.0 ula.		2	XS3F-M8PVC4S2M
		Straight	5	XS3F-M8PVC4S5M	
	4			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	4.5 ula	Right-angle	2	XS3F-M8PUR3A2M
				5	XS3F-M8PUR3A5M
PUR				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

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## 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	S	Size	Cable material	Features	Shape	Cable length	Order code
						2 m	XS3F-LM8PVC3S2M
	M8	4		0 wire	1	5 m	XS3F-LM8PVC3S5M
				3-wire		2 m	XS3F-LM8PVC3A2M
		$\bigcirc$				5 m	XS3F-LM8PVC3A5M
		4 2				2 m	XS3F-LM8PVC4S2M
Sensor connector with open cable end		30001	PVC	4-wire	1	5 m	XS3F-LM8PVC4S5M
		$\bigcirc$				2 m	XS3F-LM8PVC4A2M
						5 m	XS3F-LM8PVC4A5M
for standard factory					10	2 m	XS2F-LM12PVC3S2M
environments						5 m	XS2F-LM12PVC3S5M
	M12	$\frown$		3-wire		2 m	XS2F-LM12PVC3A2M
	10112	30 04				5 m	XS2F-LM12PVC3A5M
						2 m	XS2F-LM12PVC4S2M
		2001			1	5 m	XS2F-LM12PVC4S5M
				4-wire		2 m	XS2F-LM12PVC4A2M
						5 m	XS2F-LM12PVC4A5M

## Specifications

	M8	M12
Wire size	0.25 mm <sup>2</sup>	0.34 mm <sup>2</sup>
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 4-wire M12 3-wire		M12 4-wire		
$3 \bigcirc 0 & 1 = brown \\ 3 = blue \\ 4 = black$	$3 \bigcirc 0 \bigcirc 1 = brown$ $3 \bigcirc 0 \bigcirc 1 = brown$ $3 = blue$ $4 = black$	$\begin{array}{c} 3 \\ 0 \\ 2 \\ 2 \\ 0 \\ 2 \\ 0 \\ 1 \end{array} \begin{array}{c} 4 \\ 1 \\ 2 \\ 4 \\ 4 \\ 4 \\ 1 \\ 4 \\ 4 \\ 1 \\ 4 \\ 1 \\ 1$	$3 \bigcirc 0$ 2 = white 3 = blue 4 = black		

## XS\_-L

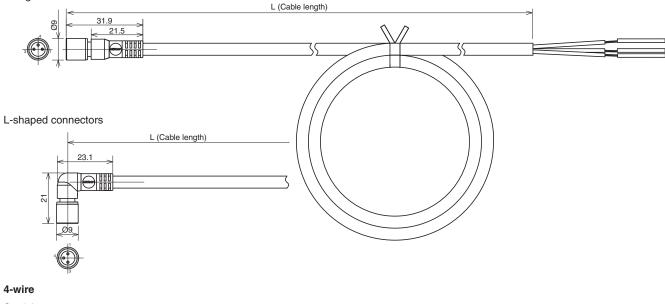
## **Dimensions**

#### XS3F

#### M8 Screw-on cable connectors

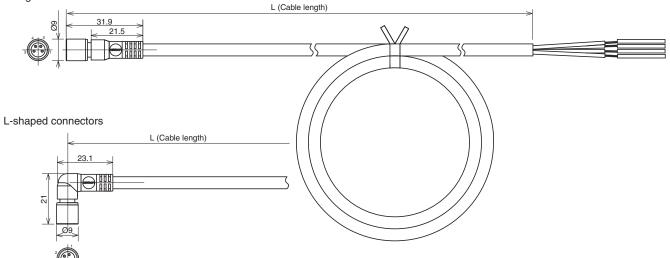
3-wire





#### 4-wire

Straight connectors



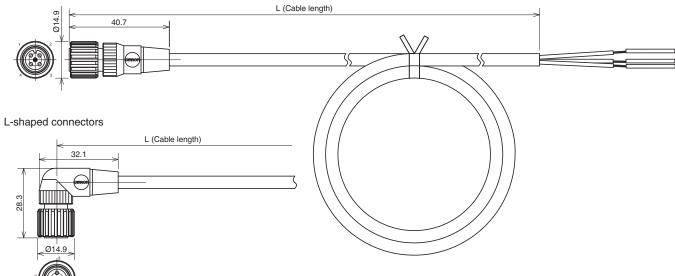
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### XS2F

#### M12 Screw-on cable connectors

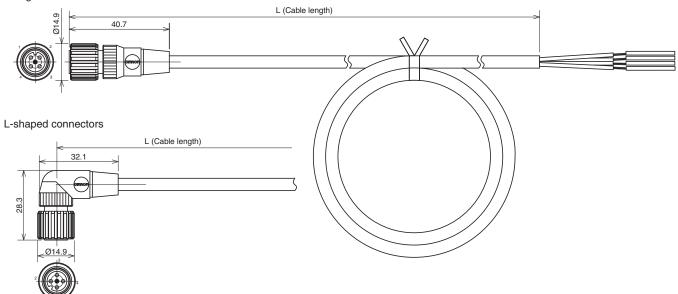
#### 3-wire





#### 4-wire

Straight connectors



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## 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					
pen cable end			8-pin, outer							10 m	Y92E-M12PURSH8S10M-L
		25						25 m	Y92E-M12PURSH8S25M-L		
	M12	PUR			0.6 m	Y92E-M12FSM12MSPURSH806M-L					
emale-male extension		FUN			2 m	Y92E-M12FSM12MSPURSH82M-L					
onnector					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**

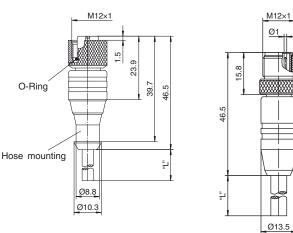
		Y92E-M12_8
Wire size		0.25 mm <sup>2</sup>
Rated current		4 A
Rated voltage		30 VDC
Degree of protection		IEC 60529: IP67
Ambient temperature		-25°C to 80°C
Rated standards		AWM 21198
	Flame retardant	IEC 60332-2-2 CSA FT2
	Halone free	IEC 60754-1
	RoHS	2002/95/EC

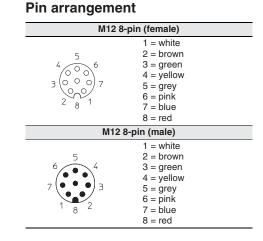
Y92E-M12\_8 (male)

## Dimensions

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

#### Y92E-M12\_8 (female)





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# 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



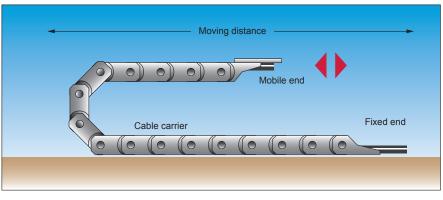
## **Ordering Information**

Туре	Size	Cable material	Bending performance (drag chain)	Torsion performance	Features	Shape	Cable length	Order code
							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 open cable end		. O Mio	(not on opified)			5 m	Y92E-M08PUR4A5M-L	
and robotic	and robotic	O 0 5	- > 2 Mio	(not specified)	4-wire		2 m	XS2F-D421-D80-F
cable						1	5 m	XS2F-D421-G80-F
	M12						2 m	XS2F-D422-D80-F
							5 m	XS2F-D422-G80-F
							2 m	Y92E-M12PUR4S2M-L
	400/3						5 m	Y92E-M12PUR4S5M-L
							2 m	Y92E-M12PUR4A2M-L
						0	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	> 5 1010	> 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					0	5 m	Y92E-M12PUR4A5M-R

## **XS**, **Y92E**

## Bending and torsion performance

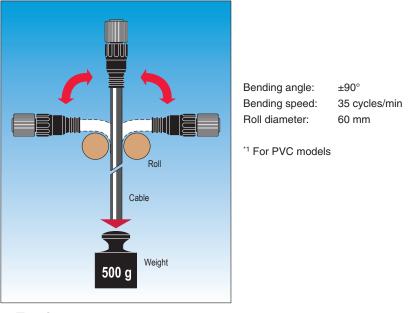
The bending and torsion performance of the robotic sensor connectors has been tested using the below test methods. **1. Bending (drag chain)** 



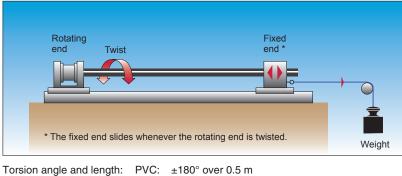
Cable carrier bending radius: Movement speed: PVC: PUR:

approx. 9 × cable outer diameter 120 m/min (max) 200 m/min (max); max 5 m/s<sup>2</sup>

#### 2. Bending (left - right)<sup>\*1</sup>



#### 3. Torsion



PUR: ±360° over 1 m

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OMRON

## 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 <sup>2</sup>	0.34 mm <sup>2</sup>				ľ	
Rated current		1A	4A					
Rated voltage		125 VDC	-i	30 VDC	240 VDC	30 VDC	240 VDC	
Degree of prote	ection	IEC 60529: IP67						
1	Fixed			–50°C to 80°C				
Ambient	Moving			-25°C to 80°C				
temperature	Continuous drag chain operation	<sup>−</sup> –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				
Starluarus	Halone free	-		IEC 60754-1	IEC 60754-1			
	RoHS	2002/95/EC						

#### Pin arrangement

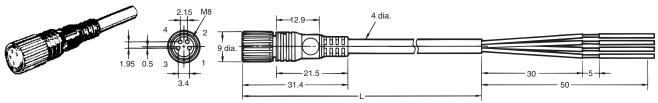
M8 4-pin	M12 4-wire
$3 \bigcirc 0 \bigcirc 1$ $3 \bigcirc 0 \bigcirc 1$ $1 = brown$ $3 = blue$ $4 = black$	1 = brown $2 = white$ $2 = white$ $3 = blue$ $4 = black$ $4 = black$ $5 = n.c.$

### Dimensions

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

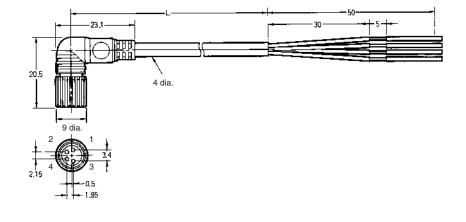
#### XS3F-\_-R

Straight Connectors

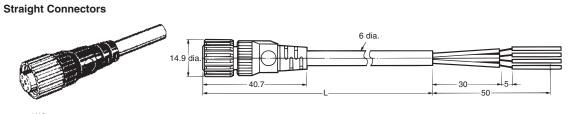


#### L-shaped Connectors



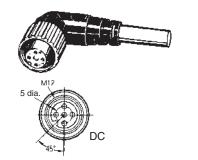


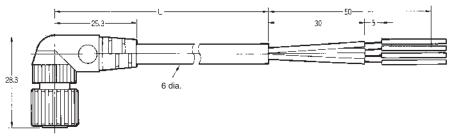
## XS2F-\_-F





L-shaped Connectors





#### Y92E-M08\_

Straight Connectors



L-shaped Connectors



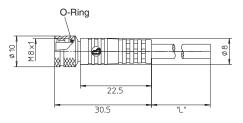
Y92E-M12\_

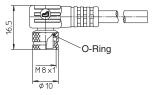
Straight Connectors

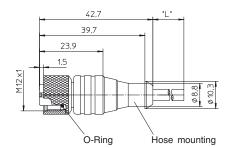


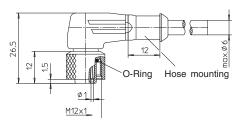
L-shaped Connectors











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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

Tuno	Size	Mat	Material		Shape	Length	Order code
Туре	5120	Nut	Cable	Features	Shape	(m) <sup>*1</sup>	Order code
					Angled	2	Y92E-S08PP3A 2M
				3 pin	Angleu	5	Y92E-S08PP3A 5M
				5 pin	Straight	2	Y92E-S08PP3S 2M
	M8				Straight	5	Y92E-S08PP3S 5M
IVIO	IVIO	SUS 316L	SUS 316L PP (Polypropylene)	4 pin	Angled	2	Y92E-S08PP4A 2M
Detergent resistant						5	Y92E-S08PP4A 5M
Wash-down					Straight	2	Y92E-S08PP4S 2M
						5	Y92E-S08PP4S 5M
					Anglad	2	Y92E-S12PP4A 2M
	M12				Angled	5	Y92E-S12PP4A 5M
	IVI 12				Otroight	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	
	1 = brown 3 = blue 4 = black		1 = brown 2 = white 3 = blue 4 = black	$3 \bigcirc 0 4$ 0 5 $2 \bigcirc 0 1$	1 = brown 2 = white 3 = blue 4 = black 5 = n.c.

#### **Materials**

materialo	
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)

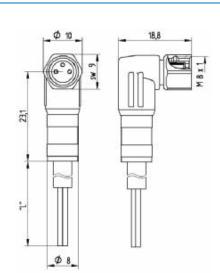
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## Y92E-S\_PP

### Dimensions

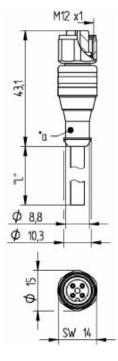
#### Y92E-S08PP

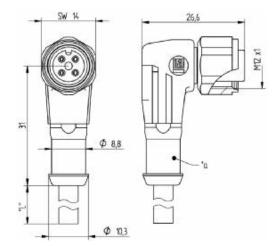






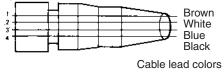
#### Y92E-S12PP





#### Wiring Diagram (M8 and M12)

Contact No.



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**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 <sup>2</sup> ) Structure: 0.08 mm			1			
Cable	Oil-resistant polyurethane cable	6 mm dia. AWG20 (0.5mm²) Structure: 0.12 mm	/45 wires					
	Spatter-resis- tant Cable	6.6 mm dia. AWG20 (0.5mm <sup>2</sup> ) 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
DC type	Male (plug) contacts	
	Female (socket) contacts	

## **Connection Combinations**

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

(Unit: mm)

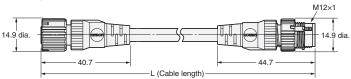
## Smartclick **XS5W** Connectors Connected to Cable, Socket and Plug on Cable Ends

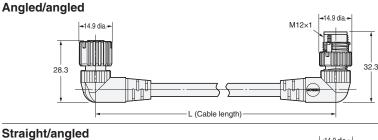
#### Fire-retardant, Robot cable

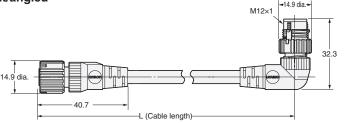
- Oil-resistant Polyurethane Cable
- Spatter-resistant Cable

## Dimensions

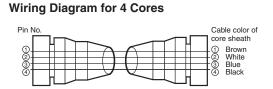
#### Straight/straight



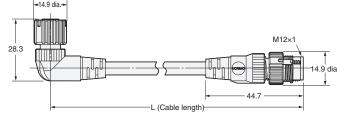




XS5W-D421-081-SA



#### 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
Cabic	5	0	XS5W-D421-G81-F	XS5W-D422-G81-F		
	10	6	XS5W-D421-J81-F		1	
Oil-resistant Polyure-	2		XS5W-D421-D81-P		F	
	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	
Cable specifications	Cable	Cable outer diameter (mm)	Straight (Socket)/ angled (Plug)	Angled (Socket)/ straight (Plug)	Minimum order	UL
-	length L (m) diameter		Model		order	
Fire-retardant, Robot	2	6	XS5W-D423-D81-F	XS5W-D424-D81-F	5	Yes
cable	5	Ø	XS5W-D423-G81-F	XS5W-D424-G81-F	Э	res

# Twist & click (M12)

## Ordering information

Turne	Size	Size		Features	Shape	Longth (m)	Order code
туре	Type Size Nut Cable Features	reatures	Shape	Length (m)	Order code		
Twist & Click <sup>*1</sup> M12		M12 Brass	PVC <sup>*2</sup>	For standard 4 pin or Omron Smartclick	Angled	2	XS5F-D422-D80-F
	M10					5	XS5F-D422-G80-F
	IVI I Z				Straight	2	XS5F-D421-D80-F
			connectors	Straight	5	XS5F-D421-G80-F	

<sup>11</sup> 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

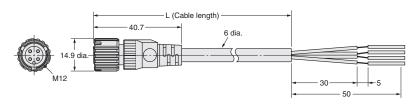
#### **Pin arrangement**

	M12 4 poles	
$3 \bigcirc 0 4$ $\bigcirc 5 \\ 2 \bigcirc 0 1$	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



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

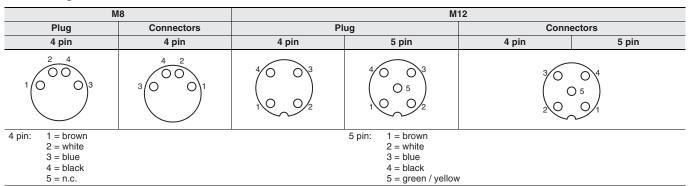
## **Ordering information**

Туре	Size	Material Nut	Fe	atures	Shape	Order code
	M8		3 pin		atraight	Y92E-MM08PVC3Sconf-L
	IVIO		4 pin		straight	Y92E-MM08PVC4Sconf-L
				IDC		XS5G-D418
			4 min	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
			4 pin twist & click (for 4-5 mm cables)	screw fix	straight	XS2G-D4S3
		Polyester elastomer			angled	XS2G-D4S4
	M8		3 pin		otroight	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	onglad	XS2C-D4C4
				solder	angled	XS2C-D424
			E pip	5 pin screw fix	straight	XS2C-D5S1
			5 hill		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		Brass/nickel base, 0.4 µm gold plating
Fixture	- CuSn, nickel base, 0.3 μm gold plating	Brass/nickel base
Cover	PVC	PBT resin (UL94V-0)
O-ring	FKM	Rubber

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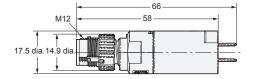
## XS2C/G, XS5C/G, Y92E-\_-conf

## Dimensions

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



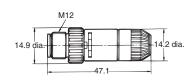




XS2G-D4C (Crimping Model, Straight), XS2G-D42 (Soldering Model, Straight)



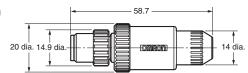




XS2G-D5S1 (Screw-on model, Straight)



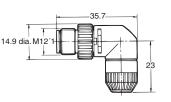




#### XS2G-D42 (Soldering Model, L-shaped)







omron

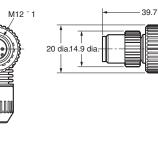
ULLÍLLU

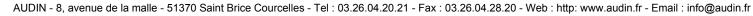
14 dia.

39.6

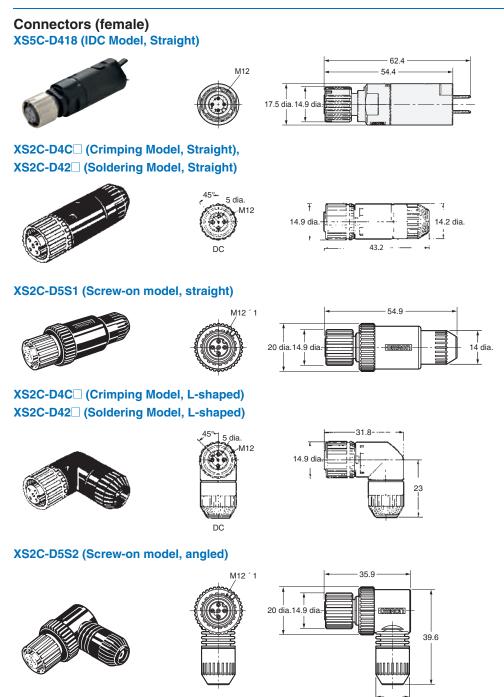
XS2G-D5S2 (Screw-on model, angled)







## 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	40 mΩ max.	
(connector)	(20 mV max., 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric strength	500 VAC for 1 min	
(connector)	(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.		Twist-and-Click Plug Connectors	M12 Plug Connectors
		XS5H, XS5G, XS5W (plug end), XS5R (plug end)	XS2H, XS2G, XS2W (plug end), XS2R (plug end)
Connector Terminal Box	XW3D	Ø	О

○: Connected by Semartclick.

O: Connected by screwing.

Smartclick is a registered trademark of the OMRON Corporation.

## 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-wire DC PNP/2-wire DC 1-4
Actuato	r 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)

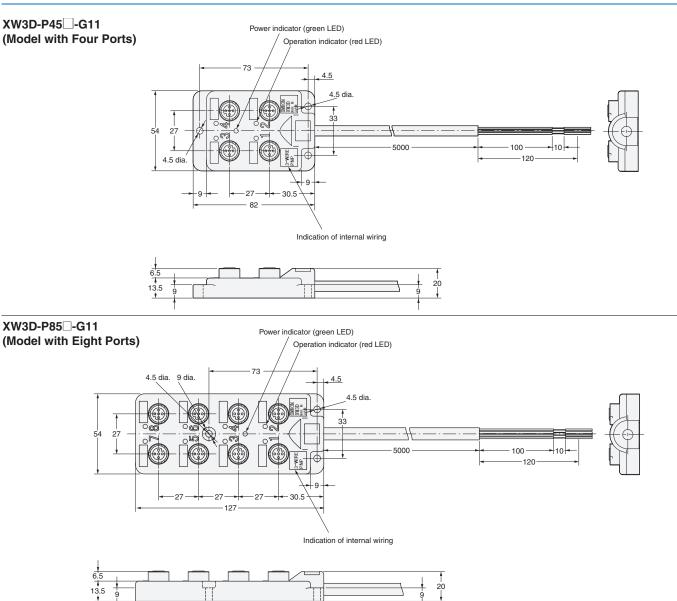
Appearance	Model	No. per box	Material
	XS5Z-11	50	PBT
	XS2Z-22	50	Brass with Ni plating

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).

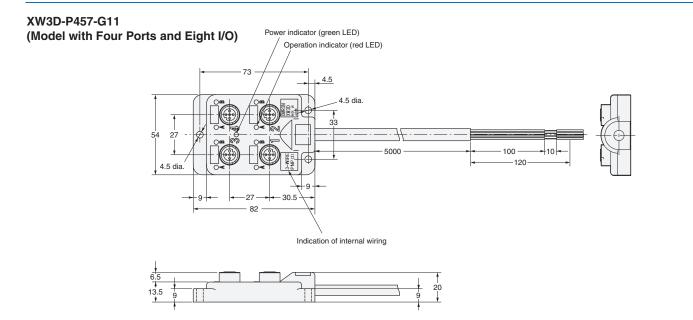
(Unit: mm)

2. The XS2Z-22 connection is threaded.

## Dimensions



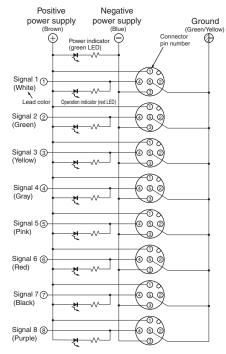
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## Wiring Diagrams

#### Models with One I/O and One Port

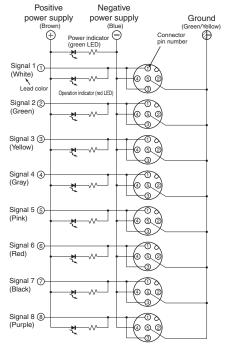
XW3D-P 55- 11 for 3-wire NPN, 2-wire DC (without polarity 3-4), and Actuator (1-4)

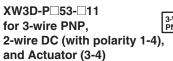


#### XW3D-P 52-11 for 2-wire DC



(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.







Positive Negative power supply power supply Ground (Green/Yell (B Conne (+)(green LED) ۶ Signal 1 (White) w -3 ₹ Lead co Op indicator (red LED <u>\_</u> Signal 2 2 (Green) @ & @ ¥ -~~ -0, Signal 3 ③ (Yellow) -3 ۶ <u>\_</u>\_\_\_\_\_ @ 5.0 Signal 4 (4) (Gray) <del>ري</del> -~~ -3 -00 0 0 0 Signal 5 (5) (Pink) -3 ş <u>-0</u> Signal 6 6 @ 5.0 (Red) 컨 -3 -~ Signal 7 (7) (Black) -3 <u>\_</u> @ & @ Signal 8 (8) (Purple) -3. Ħ N

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

2. Figures in parentheses indicate lead colors.

The expression "white/red" means white and red stripes.

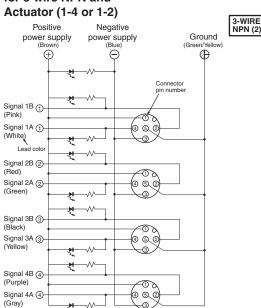
4. Here, "1-4" and "3-4" are pin numbers.

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

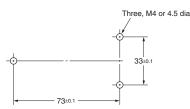
#### Models with Two I/O and One Port

#### 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.

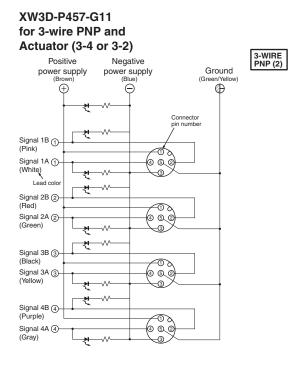
## **Safety Precautions**

#### 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**

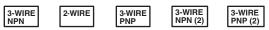
- Connect the cables leads using the correct polarity (Blue: Negative power supply, Brown: Positive power supply).
- If the polarity is not correct, the load may not operate or the operation indicator may not light.
- Always connect a load to the signal lines to operate a sensor or actuator.

#### 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	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 <sup>*1</sup>
		1 wire slave cable; 2 m PVC	E3X-CN12 <sup>*1</sup>
		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	ov			
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		

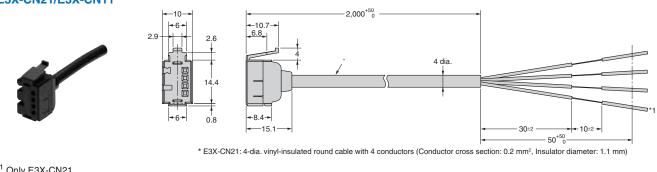
#### Pin arrangement

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

## E3X-CN

## **Dimensions**

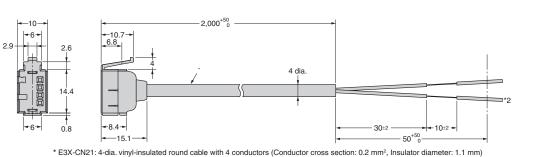
#### **Master connectors** E3X-CN21/E3X-CN11



\*1 Only E3X-CN21

#### **Slave connectors** E3X-CN22/E3X-CN12





\*2 Only E3X-CN22

## **Ordering information**

Туре	Size	Features	Applicable sensors	Order code	
Pin connector for soldering	13×4×10.8	For dark on		EE-1001	
		For light on	EE-SX47/67	EE-1001-1	
Cable connector	13×4×13.5	standard cable	EE-3747/07	EE-1010 2M	
		robotic cable		EE-1010-R 2M	
	10×5.8×8	standard cable	EE-SX97	EE-1017 1M	
		robotic cable	EE-5797	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)			
A	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)			

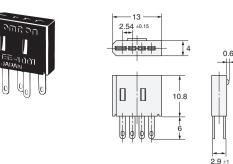
#### **Pin arrangement**

	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

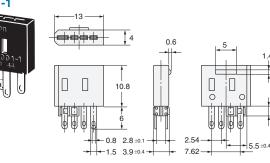
Note: For the connector EE-1001-1 the pins 1(+) and 2 (L) are short circuited

## EE-1 Dimensions

#### Connector EE-1001

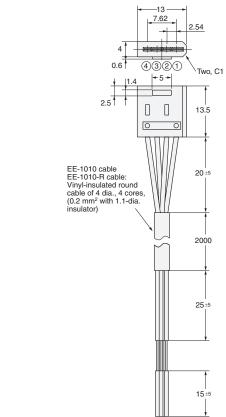


Connector (short-circuited between positive (+) and L terminals) EE-1001-1

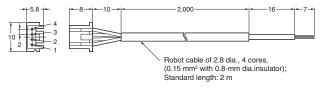


## Connector with Cable EE-1010

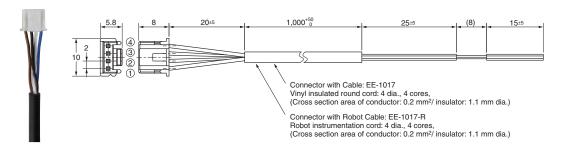
## Connector with Robot Cable EE-1010-R



## Connector with Robot Cable EE-1016-R



## Connector with Robot Cable EE-1017-R



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# 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 daisy-chain connections.	XS2R T-Joint/Y-Joint Plug/Socket Connectors (M12)	T-Joints		
	XS3R Y-Joint Plug/Socket Connectors (M8)	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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Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands Phone: +31 23 568 13 00 Fax: +31 23 568 13 88 industrial.omron.eu AUDIN - 8, avenue de la malle - 51370 Saint Brice Courcelles - Tel : 03.26.04.20.21 - Fax : 03.26.04.28.20 - Web : http: www.audin.fr - Email : info@audin.fr