



**Automatización Eléctrica**

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



















# 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



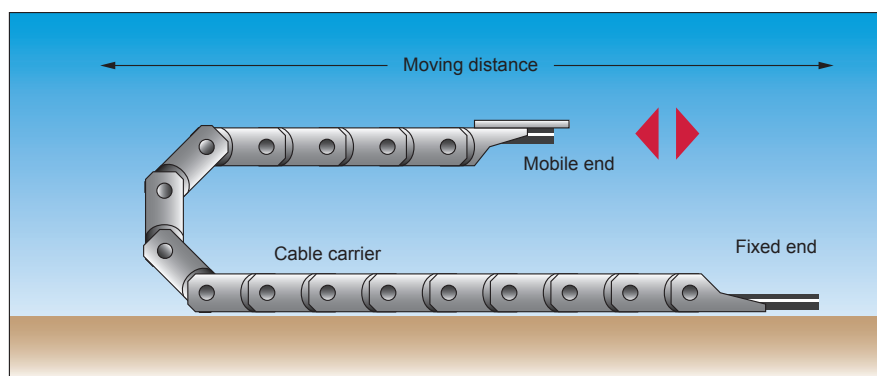
## Ordering Information

Type	Size	Cable material	Bending performance (drag chain)	Torsion performance	Features	Shape	Cable length	Order code
Sensor connector with open cable end and robotic cable	M8 	PVC	> 2 Mio	(not specified)	4-wire		2 m	XS3F-M421-402-R
		PUR					5 m	XS3F-M421-405-R
							2 m	XS3F-M422-402-R
							5 m	XS3F-M422-405-R
	M12 					PVC		2 m
		PUR					5 m	Y92E-M08PUR4S5M-L
							2 m	Y92E-M08PUR4A2M-L
							5 m	Y92E-M08PUR4A5M-L
	M12 		PVC			2 m	XS2F-D421-D80-F	
		PUR		5 m		XS2F-D421-G80-F		
				2 m		XS2F-D422-D80-F		
				5 m		XS2F-D422-G80-F		
Sensor connector with open cable end and high grade robotic cable			M8 	PUR	> 5 Mio	> 10 Mio		2 m
							5 m	Y92E-M12PUR4S5M-L
							2 m	Y92E-M12PUR4A2M-L
							5 m	Y92E-M12PUR4A5M-L
	M12 		2 m				Y92E-M08PUR4S2M-R	
			5 m				Y92E-M08PUR4S5M-R	
			2 m				Y92E-M08PUR4A2M-R	
			5 m				Y92E-M08PUR4A5M-R	
			2 m	Y92E-M12PUR4S2M-R				
			5 m	Y92E-M12PUR4S5M-R				
			2 m	Y92E-M12PUR4A2M-R				
			5 m	Y92E-M12PUR4A5M-R				

## Bending and torsion performance

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

### 1. Bending (drag chain)

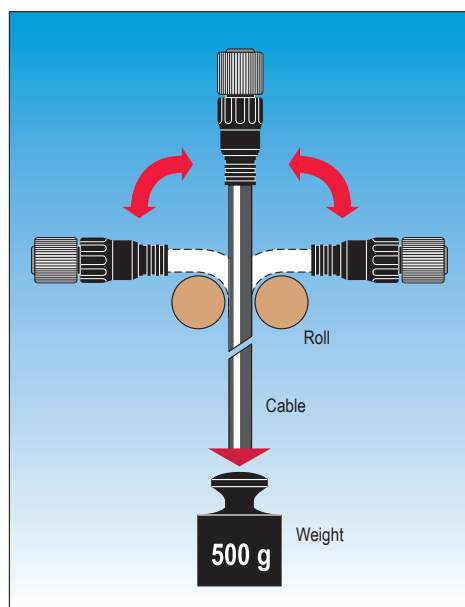


Cable carrier bending radius: approx.  $9 \times$  cable outer diameter

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

PUR: 200 m/min (max); max  $5 \text{ m/s}^2$

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



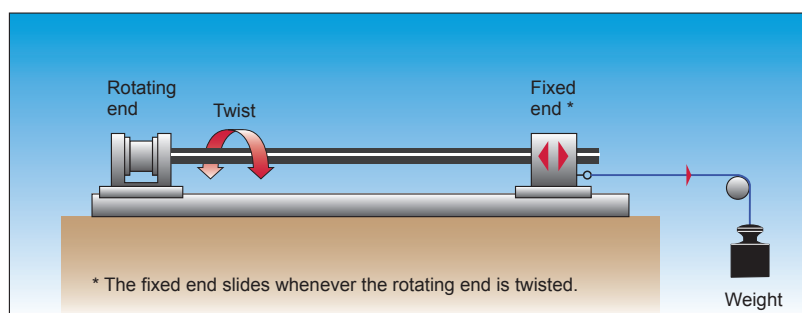
Bending angle:  $\pm 90^\circ$

Bending speed: 35 cycles/min

Roll diameter: 60 mm

\*<sup>1</sup> For PVC models

### 3. Torsion



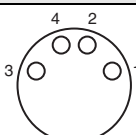
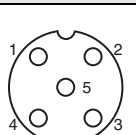
Torsion angle and length: PVC:  $\pm 180^\circ$  over 0.5 m

PUR:  $\pm 360^\circ$  over 1 m

## Specifications

		Robotic PVC		Robotic PUR		High grade robotic PUR	
		XS3F-_-R	XS2F-_-F	Y92E-M_-L		Y92E-M_-R	
		M8	M12	M8	M12	M8	M12
Wire size		0.25 mm²	0.34 mm²				
Rated current		1A	4A				
Rated voltage		125 VDC		30 VDC	240 VDC	30 VDC	240 VDC
Degree of protection		IEC 60529: IP67					
Ambient temperature	Fixed	-25° to 70°C		-50°C to 80°C			
	Moving			-25°C to 80°C			
	Continuous drag chain operation			-25°C to 60°C		5°C to 60°C	
Rated standards	Style	—	AWM 2464	AWM 20549			
	Flame retardant	—	UL VW1 CSA FT4	IEC 60332-2-2 CSA FT2			
	Halone free	—		IEC 60754-1			
	RoHS	2002/95/EC					

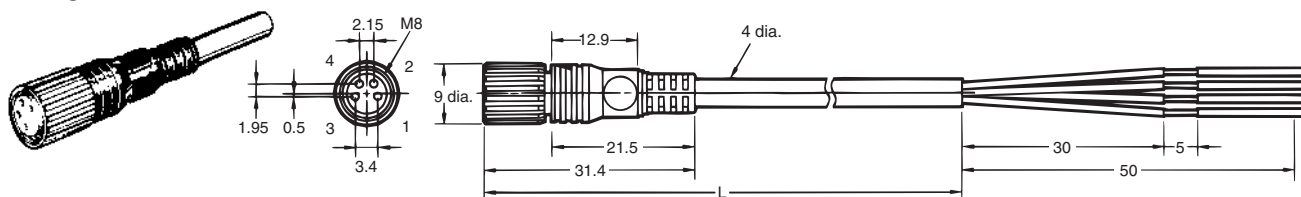
## Pin arrangement

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

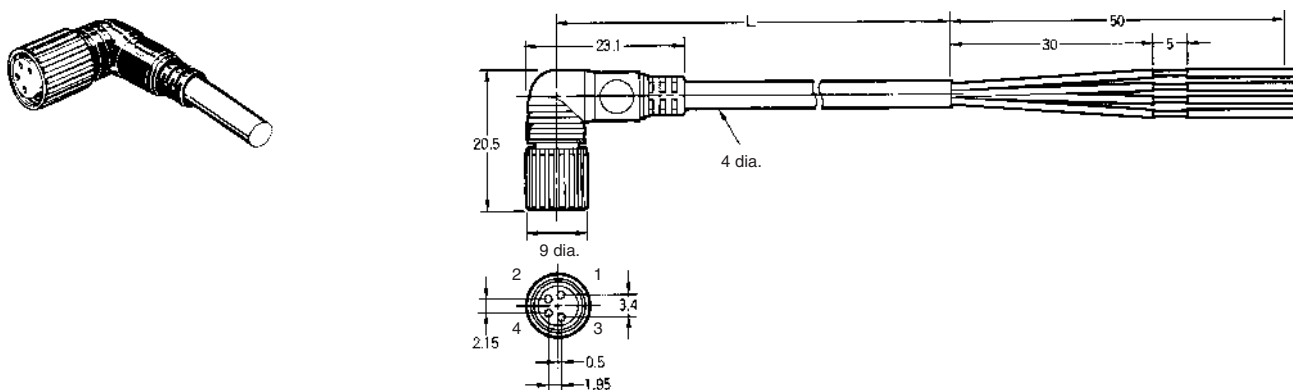
## Dimensions

### XS3F-\_-R

#### Straight Connectors

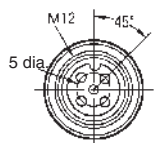
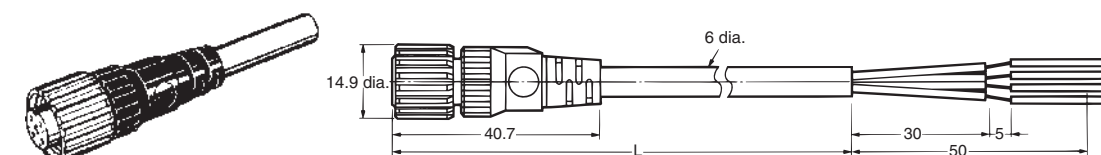


#### L-shaped Connectors



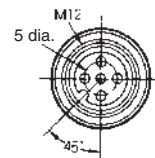
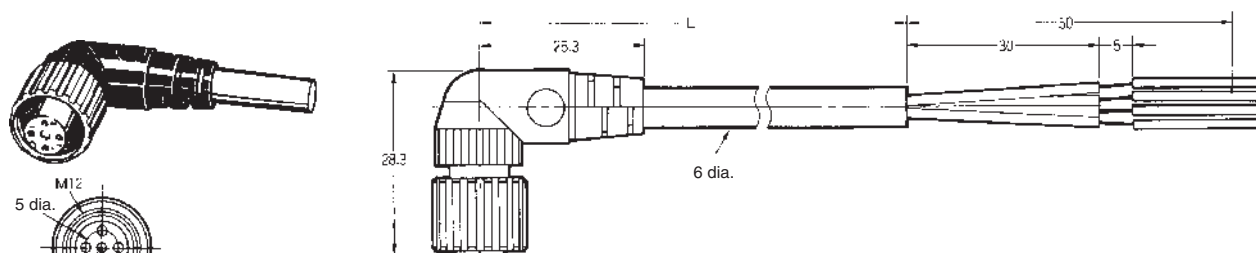
### XS2F-\_-F

#### Straight Connectors



DC

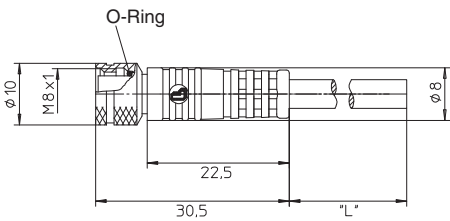
#### L-shaped Connectors



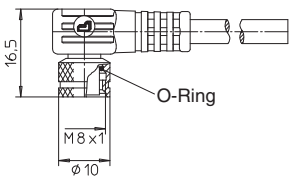
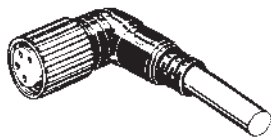
DC

Y92E-M08\_

Straight Connectors

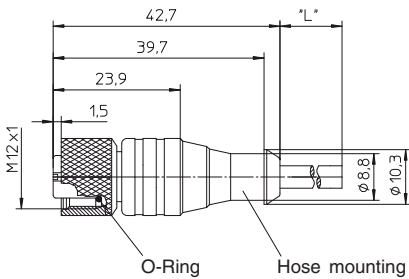
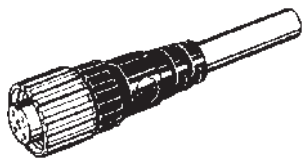


L-shaped Connectors

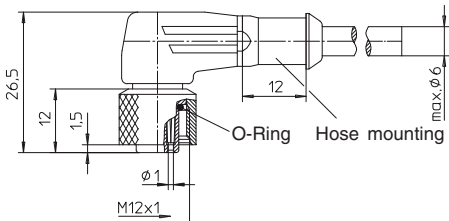


Y92E-M12\_

Straight Connectors



L-shaped Connectors



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Product	Code	Reference	Product link
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Proximity sensor, Straight 5m PUR cable 4-wire M8	206551	Y92E-M08PUR4S5M-L	<a href="#">Buy on EAN</a>
Proximity sensor, Wired 2m PUR M8 Angled 4thread	206538	Y92E-M08PUR4A2M-L	<a href="#">Buy on EAN</a>
Proximity sensor, Wired Right Angle 4-wire M8 5m PUR	206543	Y92E-M08PUR4A5M-L	<a href="#">Buy on EAN</a>
Proximity sensor, Straight 2m cable 4-wire M8 Robotizado	156301	XS3F-M421-402-R	<a href="#">Buy on EAN</a>
Proximity sensor, Straight Cable 2m PUR M8 4thread	206550	Y92E-M08PUR4S2M-L	<a href="#">Buy on EAN</a>
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