

Distance-settable Photoelectric Sensor E3AS-L Series

Background suppression sensor for enhanced detection low-reflectivity objects

- Equipped with Omron's proprietary light emitting element for stable detection of low-reflective workpieces
- Teaching method allows anyone to set optimal threshold values
- Manufactured using Omron's proprietary laser sealing method (IP67/IP69K/IP67G *)
- Antifouling coating prevents contamination on the sensing surface
- IO-Link reduced time required for startups and changeovers

* Only for sensor units.



Refer to *Safety Precautions* on page 8.

For the most recent information on models that have been certified for safety standards, refer to your Omron website.

Ordering Information

Sensors [Refer to *Dimensions* on page 9.]

Red light

Connection method	Sensing distance (white paper)	Output	Model		
		IO-Link baud rate	NPN output	PNP output	PNP output
			---	COM2 (38.4 kbps)	COM3 (230.4 kbps)
Pre-wired (2 m) ¹			E3AS-L200MN 2M	E3AS-L200MD 2M	E3AS-L200MT 2M
M8 Connector			E3AS-L200MN M3	E3AS-L200MD M3	E3AS-L200MT M3
M8 Pre-wired Connector			E3AS-L200MN-M3J 0.3M	E3AS-L200MD-M3J 0.3M	E3AS-L200MT-M3J 0.3M
M12 Pre-wired Connector ²			E3AS-L200MN-M1TJ 0.3M	E3AS-L200MD-M1TJ 0.3M	E3AS-L200MT-M1TJ 0.3M
Pre-wired (2 m) ¹			E3AS-L80MN 2M	E3AS-L80MD 2M	E3AS-L80MT 2M
M8 Connector			E3AS-L80MN M3	E3AS-L80MD M3	E3AS-L80MT M3
M8 Pre-wired Connector			E3AS-L80MN-M3J 0.3M	E3AS-L80MD-M3J 0.3M	E3AS-L80MT-M3J 0.3M
M12 Pre-wired Connector ²			E3AS-L80MN-M1TJ 0.3M	E3AS-L80MD-M1TJ 0.3M	E3AS-L80MT-M1TJ 0.3M

1. Models with 5-m cable length are also available with "5M" suffix. (Example: E3AS-L200MN 5M)

2. The Pre-wired Connector (M12) is Smartclick Connector.

E3AS-L Series

Accessories (Sold Separately)

Sensor I/O Connectors (Sockets on One Cable End)

(Models for Connectors / Pre-wired Connectors)

A Sensor I/O Connector is not provided with the Sensor. Order separately as needed.

Round Water-resistant Connectors XS3F-M8 series

Appearance	Cable specification	Cable diameter (mm)	No. of cable cores (Poles)	Cable connection direction	Cable length (m)	Sensor I/O Connector model number
M8 Connector	PVC cable	5 dia.	4	Straight	2	XS3F-M8PVC4S2M
Straight type					5	XS3F-M8PVC4S5M
				Right-angle	2	XS3F-M8PVC4A2M
					5	XS3F-M8PVC4A5M

Note: 1. The XS3W (Socket and Plug on Cable Ends) is also available. Refer to XS3W-M8/XS3F-M8 Series Datasheet (Cat. No. G140).

2. The connectors will not rotate after they are connected.

3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.

Round Water-resistant Connectors XS5 series

Appearance	Cable specification	Cable diameter (mm)	Cable connection direction	Cable length (m)	Sensor I/O Connector model number
M12 Smartclick Connector	PVC robot cable	6 dia.	Straight	2	XS5F-D421-D80-F
Straight type				5	XS5F-D421-G80-F
			Right-angle	2	XS5F-D422-D80-F
Right-angle type				5	XS5F-D422-G80-F
					

Note: 1. The XS5W (Socket and Plug on Cable Ends) is also available. Refer to XS5 on your Omron website for details.

2. The connectors will not rotate after they are connected.

3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.