OMRON

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.

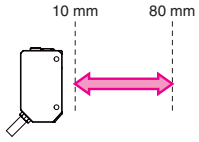
Refer to *Safety Precautions* on page 8.

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)	Model		
	Output	NPN output	PNP output	PNP output
	IO-Link baud rate	---	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.

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 Straight type 	PVC cable	5 dia.	4	Straight	2	**XS3F-M8PVC4S2M**
					5	**XS3F-M8PVC4S5M**
Right-angle type 				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 Straight type 	PVC robot cable	6 dia.	Straight	2	**XS5F-D421-D80-F**
				5	**XS5F-D421-G80-F**
Right-angle type 			Right-angle	2	**XS5F-D422-D80-F**
				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.