



Built-in Amplifier Photoelectric Sensor

E3V3

Easy-to-use, Low-cost Photoelectric Sensor

- Incorporating indicators that can be clearly seen from a distance
- Conforms to EN and IEC standards
- Incorporating polarizing function, thus accurately detecting shiny objects
- Resin-filled construction resists vibration and ensures IP67 water-resistance
- 2 meter attached cable



Ordering Information

Connections	Supply voltage	Sensing type	Sensing range	Output		Part number
				Mode	Type	
Pre-leaded	12 to 24 VDC	Through-beam	7 m (23 ft)	Light-ON/Dark-ON (selectable by wiring)	NPN	E3V3-T61
					PNP	E3V3-T81
		Polarized retroreflective	2 m (6.6 ft)		NPN	E3V3-R61
					PNP	E3V3-R81
		Diffuse reflective	0.5 to 8 cm (0.20 to 3.15 in)		NPN	E3V3-D61
					PNP	E3V3-D81
			70 cm (2.3 ft)		NPN	E3V3-D62
					PNP	E3V3-D82
Pigtail lead with M8 connector	12 to 24 VDC	Through-beam	7 m (23 ft)	Light-ON/Dark-ON (selectable by wiring)	NPN	E3V3-T61-M3J
					PNP	E3V3-T81-M3J
		Polarized retroreflective	2 m (6.6 ft)		NPN	E3V3-R61-M3J
					PNP	E3V3-R81-M3J
		Diffuse reflective	0.5 to 8 cm (0.20 to 3.15 in)		NPN	E3V3-D61-M3J
					PNP	E3V3-D81-M3J
			70 cm (2.3 ft)		NPN	E3V3-D62-M3J
					PNP	E3V3-D82-M3J

Note: Mounting brackets are not provided with the E3V3. Order them separately below.

■ CONNECTOR CORDSETS

Description	Part number
Straight connector, 2 m (6.56 ft), 4-conductor cable	XS3F-M421-402-R
Straight connector, 5 m (16.4 ft), 4-conductor cable	XS3F-M421-405-R
Extension cable, 2 m (6.56 ft), connectors at both ends	XS3W-M421-402-R
Extension cable, 5 m (16.4 ft), connectors at both ends	XS3W-M421-405-R

■ ACCESSORIES

Description			Part number
Slits for through-beam type, set of 3 pairs includes 0.5 mm, 1 mm and 2 mm slits			E39-S7
Reflectors	Corner cube type	5 to 100 cm (2.0 in to 1.64 ft)	E39-R3
	Glass bead, adhesive back	20 to 50 cm (7.9 in to 19.7 in)	E39-RSA
		20 to 80 cm (7.9 in to 31.5 in)	E39-RSB
Optional mounting brackets	Side mounting bracket		E39-L43
	Rear-mounting bracket		E39-L44
	Rotating post bracket		E39-L93
	Metal cover bracket		E39-L98
	Vertical mounting bracket		E39-L104
	For E39-R1 reflector		E39-L7

■ REPLACEMENT PART

Description	Part number
Reflector supplied with each retroreflective sensor	E39-R1

Specifications

Sensing method		Through-beam	Retroreflective (with MSR function)	Diffuse reflective	
NPN output		E3V3-T61	E3V3-R61	E3V3-D61	E3V3-D62
PNP output		E3V3-T81	E3V3-R81	E3V3-D81	E3V3-D82
LED light source		Infrared LED	Red LED	Infrared LED	
Sensitivity adjustment		Adjustor			
Connection method		Pre-leaded: 2 m (6.6 ft)			
Weight		Approx. 160 g (with 2-m cord)	Approx. 80 g (with 2-m cord)		
Mode		Wire selectable (Light-ON or Dark-ON)			
Circuit protection		Overload protection, reversed connection protection, and mutual interference prevention function (except for through-beam models)			
Indicators		Operation indicator (orange), stability indicator (green), emission indicator for through-beam models only (orange)			
Materials	Case	Heat-resistant ABS			
	Lens	Methacrylic resin			
Attachments		Instruction sheet and reflector (E39-R1 retroreflective model only) (See Note.)			

Note: The mounting brackets are sold separately.