

Transparent object detection sensor in compact stainless steel housing

E3ZM-B

The E3ZM-B provides enhanced detection stability for the detection of transparent materials. The models for all transparent materials allow an easy and intuitive adjustment by potentiometer or teach button to adjust to individual requirements. The PET optimised model provides additional and auto-controlled measures for highest stability on PET materials.

- Easy adjustment to individual requirements for all transparent materials
- Stable PET detection with optimised detection settings and AC³ power control technology
- Detergent resistant compact SUS316L housing
- Coaxial optics for stable, distance-independant detection



Ordering Information

Sensor type		Sensing distance	Special reflector	Connection method				Order code	
								NPN output	PNP output
Retro-reflective with M.S.R. 	Optimised for PET bottles and trays	0 to 500 mm (teachable)	Order separately* ² E39-RP1 included	–	–	2 m	–	E3ZM-B61 2M	E3ZM-B81 2M
				■	–	–	–	E3ZM-B66	E3ZM-B86
				–	–	2 m	–	E3ZM-B61-C 2M	E3ZM-B81-C 2M
	For all transparent media (glass, PET, foils)	0 to 500 mm (potentiometer adjustment)* ³	Order separately* ⁴	–	–	2 m	–	E3ZM-B61T 2M	E3ZM-B81T 2M
				■	–	–	–	E3ZM-B66T	E3ZM-B86T

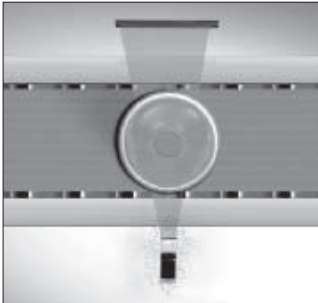
*1. For ordering pigtail versions contact your OMRON representative. Available options on request are:
 - S1J: for M12 4-pin stainless steel plug with 30 cm cable
 - S3J: for M8 4-pin stainless steel plug with 30 cm cable
 - S5J: for M8 3-pin stainless steel plug with 30 cm cable (only E3ZM-B_T)
 - M1J: for M12 4-pin brass plug with 30 cm cable
 - M3J: for M8 4-pin brass plug with 30 cm cable
 - M5J: for M8 3-pin brass plug with 30 cm cable (only E3ZM-B_T)
 - M1TJ: for M12 4-pin brass XS5 click connector plug with 30 cm cable.
 *2. For higher signal stability for PET bottles, order special reflector E39-RP1 separately.
 *3. Teachable all-transparent-media types are available. Contact your OMRON representative.
 *4. Order reflector separately.

Features

Enhanced detection stability on PET (PET optimised models)



Utilisation of double reflection effect in PET for higher detection stability (PET optimised models)



Automatic LED power adjustment (AC³) to compensate for soiling and temperature fluctuations

Robust housing and easy adjustment










Detergent and high pressure water resistant (see page 9 for more info)



Easy adjustment by potentiometer or teach button




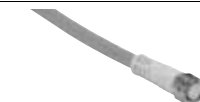
Mounting Brackets

Appearance	Model (Material)	Quantity	Remarks	Appearance	Model (Material)	Quantity	Remarks
	E39-L104 (SUS304)	1	Standard surface mounting (pre-wired models)		E39-L150 (SUS304)	1 set	Telescope mounting
	E39-L43 (SUS304)	1	Protection wall mounting (pre-wired models)		E39-L151 (SUS304)	1 set	
	E39-L142 (SUS304)	1					
	E39-L44 (SUS304)	1	Back wall mounting		E39-L144 (SUS304)	1	Protection surface mounting

Note: for the complete range of mounting brackets refer to accessory datasheet E26E.

Cable connectors

For the complete list of cable connectors refer to E26E accessory datasheet.

Size	Shape	Type	Features	Material		Order code	
				Nut	Cable		
M8		General purpose (screw)	4pin	Brass (CuZn)	PVC 2 m PUR 2 m	XS3F-M8PVC4S2M XS3F-M8PUR4S2M	XS3F-M8PVC4A2M XS3F-M8PUR4A2M
		Detergent resistant		Stainless steel (SUS316L)	PVC 2 m	Y92E-S08PVC4S2M-L	Y92E-S08PVC4A2M-L