

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 AC<sup>3</sup> 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    |
|             | Optimised for PET bottles and trays           | 0 to 500 mm (teachable)                              | Order separately* <sup>2</sup><br>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 |
|             |                                               |                                                      |                                                    | ■                 | — | —   | — | E3ZM-B66-C    | E3ZM-B86-C    |
|             | For all transparent media (glass, PET, foils) | 0 to 500 mm (potentiometer adjustment)* <sup>3</sup> | Order separately* <sup>4</sup>                     | —                 | — | 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.

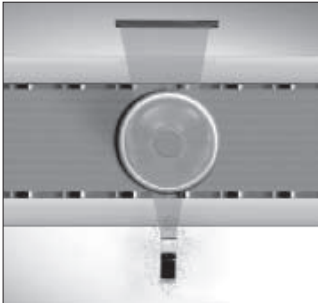
\*4. Order reflector separately.

Features

Enhanced detection stability on PET (PET optimised models)

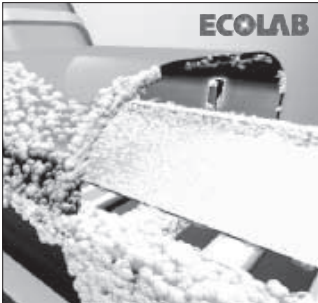


Utilisation of double reflection effect in PET for higher detection stability (PET optimised models)



Automatic LED power adjustment (AC<sup>3</sup>) 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

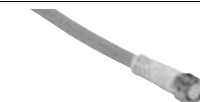
## Mounting Brackets

| 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<br>PUR 2 m | XS3F-M8PVC4S2M<br>XS3F-M8PUR4S2M                                                      | XS3F-M8PVC4A2M<br>XS3F-M8PUR4A2M                                                      |
|      |  | Detergent resistant     |          | Stainless steel (SUS316L) | PVC 2 m            | Y92E-S08PVC4S2M-L                                                                     | Y92E-S08PVC4A2M-L                                                                     |