



E3Z series

Photoelectric Sensor with Built-In Amplifier

The E3Z general-purpose range is the perfect choice for the majority of photo-sensing applications. The series makes no compromise on performance thanks to its integrated, high-sensitivity photo-IC, specially designed by Omron. The range incorporates advanced functionality, such as a special algorithm that guarantees reliable detection under a broad range of operating conditions, and advanced pulse-synchronization techniques to ensure high ambient-light immunity.

Features ▶

- Compact housing size and high-power LED for excellent performance/size ratio
- Enclosure rating (IP67-IEC60529)
- Switch-selectable light-on/dark-on operation
- M8 connector-ready or pre-wired models

Benefits ▶

- Photo-IC provides long sensing distance
- Integrated photo-IC improves noise immunity to interference from inverters and other inductive loads
- Tough PBT housing for rugged mechanical resistance
- 1200-PSI washdown-pressure rated

Applications ▶

- Semiconductor industry and electronic components
- Packaging, food products, chemicals, and sanitation
- Pharmaceutical
- Conveyance and automated warehouses

Product Specifications ▶

Part Number	Type/Description	Light Source	Output	Range
E3Z-T61	Through-beam-pre-wired	Infrared/red LED	NPN	15m
E3Z-R61	Polarized retroreflective-pre-wired	Red LED	NPN	100 mm-4m
E3Z-D61	Diffuse reflective-pre-wired	Infrared LED	NPN	5 mm-100 mm (wide view)
E3Z-D62	Diffuse reflective-pre-wired	Infrared LED	NPN	1m
E39-R1	Reflector for retroreflective models, size 40 mm x 60 mm	NA	NA	100 mm-3m
E39-L7	Mounting bracket for E39-R1 reflector	NA	NA	NA
E39-R1S	Reflector for retroreflective models, size 40 mm x 60 mm	NA	NA	100 mm-4m
E39-R2	Reflector for retroreflective models, size 80.8 mm x 60 mm	NA	NA	100 mm-5m
E39-R3	Miniature reflector for retroreflective models, size 22.5 mm x 38 mm	NA	NA	50 mm-1.5m
E39-RSA	Adhesive-back reflector sheet, size 35 mm x 10 mm	NA	NA	150 mm-700 mm
E39-RSB	Adhesive-back reflector sheet, size 40 mm x 35 mm	NA	NA	150 mm-1.1m
E39-L44	L-bracket, vertical mounting bracket	NA	NA	NA
E39-L104	L-bracket, horizontal mounting bracket	NA	NA	NA
E39-L144	Protected top mounting bracket, 5 degree angle adjustability	NA	NA	NA