

Reflectors for photoelectric sensors

E39-R

The E39-R series of reflectors for photoelectric sensors features a wide range of models with different sizes, shapes, mounting types and materials. The reflectors provide high accuracy, reflectivity and lifetime for standard applications as well as for challenging environments.

- Standard reflectors with different sizes and shapes
- Detergent and heat resistant reflectors
- Screw mounting, snap-in or self-adhesive types



Ordering information

Shape	Type	Housing material	Features	Size in mm	Applicable Sensor	Order code
	General purpose reflectors	ABS base Acrylic surface	Surface screw mounting (diagonal holes)	40×60×7.5	Retro-reflective photoelectric sensors – without M.S.R. Retro-reflective photoelectric sensors – with M.S.R.* ¹	E39-R1S
			Surface screw mounting (holes on one side only)	35.4×42.3×8		E39-R9
				51.4×60.3×8.5		E39-R42
	Small size		Side screw mounting or surface selfadhesive	41.8×22.5×11		E39-R3
				23×13.7×4.9		E39-R4
	Large size		Surface screw mounting	100×100×9		E39-R8
				84.5×84.5×8.7		E39-R40

*¹ Mirror Surface Rejection (MSR) is realized by using polarization filters

Shape	Type	Housing material	Features	Size in mm	Applicable Sensor	Order code
	High precision	ABS base Acrylic surface	Microtripel for improved performance with fine beam sensors	52×40×4.8	Recommended for fine beam coaxial models (E3C-LR, E3NC-LH03, E3T-SR4, E3S-DB)	E39-R6
				30×45		E39-R12
				14×23×1		E39-R37-CA
				12×24		E39-R13
	Simple mounting	ABS base Acrylic surface	Round shape with centered mounting hole for simple screw mounting	Diameter: 84 Depth: 7.4	Photoelectric sensors with and without M.S.R. ^{*1}	E39-R7
	Enhanced detergent resistance	PVC	Surface screw mounting IP69k after DIN 40050 part 9	40×60×7.5	Recommended for harsh environment sensors	E39-R50
				20×60×6		E39-R51
	Highest detergent resistance	SUS316L Borosilicat	Surface screw mounting	43×30×5		E39-R16
	Heat resistant	Borosilicat	Surface screw mounting 450°C heat resistance Suitable for vacuum environment	95×51×8		E39-R47
	Non-fogging reflector	ABS Acrylic surface	Anti-fogging coating	40×60×7.5		E39-R1K

^{*1} Mirror Surface Rejection (MSR) is realized by using polarization filters

Shape	Type	Housing material	Features	Size in mm	Applicable Sensor	Order code
	Special polarizing	ABS base PMMA surface	Special polarizing filter to PET	40×80×8.5	E3ZM-B, E3FA-B, E3FB-B, E3S-DB	E39-RP1
	General purpose tape reflectors	Acrylic	Self adhesive Pre cut	35×10×0.7	Photoelectric sensors with and without M.S.R.* ¹ Optimised for E3T-SR4	E39-RS1
				40×35×0.7		E39-RS2
				80×70×0.6		E39-RS3
			Self adhesive Self cut/roll material	25 mm × 5 m		E39-RS25 5 m
				25 mm × 22.8 m		E39-RS25 22.8 m
				50 mm × 5 m		E39-RS50 5 m
				50 mm × 22.8 m		E39-RS50 22.8 m
	High precision tape reflectors		Self adhesive Pre cut	195×22	Recommended for fine beam and laser sensors (E3Z-LR, E3C, E3X)	E39-RS4
				108×46		E39-RS5

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Material: reflective
surface: acrylic
Clear surface: ABS

Technical drawing of a mechanical part with dimensions:

- Overall width: 13.7
- Top flange width: 4
- Top flange thickness: 2
- Top flange hole diameter: 9.7
- Overall height: 23
- Internal hole diameter: 19
- Internal hole depth: 2
- Bottom flange thickness: 4
- Bottom flange hole diameter: Two, 2.2 dia.
- Side view width: 4.9
- Side view depth: 1.4

Technical drawing of a rectangular plate. The front view shows a rectangle with overall dimensions of 40 mm in width and 52 mm in height. There is a 34 mm wide central section. Two circular features are located on the left side, with a vertical distance of 40 mm between their centers. The side view shows a thickness of 4.8 mm and a small rectangular feature at the bottom with a width of 6 mm and a height of 3 mm.

Technical drawing of a rectangular waveguide. The front view (left) shows a rectangle with a width of 14. The top and bottom edges are tapered, with a label 'Reflective surface' pointing to the top edge and 'Two, 3.5-dia.' pointing to the bottom edge. The side view (right) shows the profile of the waveguide with dimensions 8.5, 3, and 0.2.

Technical drawing of a cylindrical container with a conical top and bottom. The drawing shows a side view with dimensions: total height 80, height to the start of the conical bottom 72, and height to the start of the conical top 63.6. The top diameter is 44. The bottom is labeled "Two, 3.5-dia." and the side is labeled "Reflective surface".

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