

Retroreflectors and Retroreflective Tape



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Retroreflectors and Retroreflective Tape

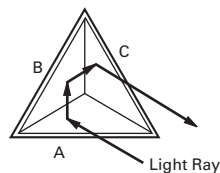
Product Description

Retroreflectors from Eaton's Electrical Sector are used with reflex-type sensors.

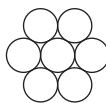
Application Description

Corner Cube Retroreflectors

This type provides the highest signal return to the sensor, typically 2000 to 3000 times the reflectivity of white paper. Three adjoining sides are arranged at right angles to each other. When a ray of light strikes one of these sides (A), it is reflected to the second (B), then the third (C), and then back to the source parallel to its original course. Thousands of these cube shapes are molded into a rugged plastic reflector or vinyl tape material. Corner cube retroreflectors are suitable for use with both standard reflex and polarized reflex sensors.

Corner Cube**Retroreflector Size**

The size of the retroreflective target has a significant effect on the excess gain and range of a reflex sensor. In general, we recommend you use the largest possible reflector in every reflex sensing application to maximize performance of the sensor and simplify alignment. To provide an even larger reflective area, multiple retroreflectors can be grouped together as shown.



7 Retroreflectors
Grouped Together

Using Retroreflectors with Polarized Reflex Sensors

Only corner cube retroreflective material can be used with polarized reflex sensors. When polarized light from the sensor's light source strikes a corner cube retroreflector, it is returned to the sensor in a depolarized state. This allows some of the light to pass through the detector's polarizer, which is positioned at 90° to the source polarizer, to allow the sensor to operate.

Molded plastic corner cube retroreflectors are always recommended as they provide the highest signal return to the sensor.

Corner cube tape works with polarized reflex sensors but returns less light to the sensor. In all cases, Eaton recommends testing sensor and tape prior to final installation.

For the most current information on this product, visit our Web site: www.eaton.com






For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578.

For Application Assistance in the U.S. and Canada call 1-800-426-9184.

Product Selection

Retroreflectors

Round Retroreflectors

	Description	Catalog Number
	3 in diameter, with mounting hole, two per package	6200A-6501
	Bulk packaged version of above (ordered quantity will be bulk packaged)	6200AS6501
	3 in diameter, with mounting hole, one per package	E51KR84
	3 in diameter, metal backed, with mounting hole, one per package	6200A-6506
	2.18 in diameter, with mounting hole, one per package	6200A-6505
	2.18 in diameter, adhesive backed, one per package	6200A-6502
	1.25 in diameter, adhesive backed, one per package	6200A-6504
	Bulk packaged version of above (ordered quantity will be sent bulk packaged)	6200AS6504
	1.25 in diameter, no adhesive, one per package	E51KR32

Retroreflective Tape

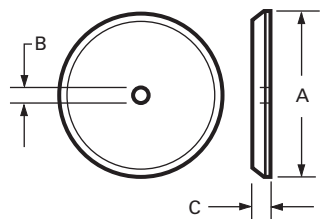
	Corner Cube Style ^①	
	Description	Catalog Number
	2 in wide, 1 piece, quantity is length in feet	6202A-XXXX

Note

^① Although corner cube tape works with polarized reflex sensors, we recommend testing sensor and tape prior to installation.

Dimensions

Approximate Dimensions in Inches (mm)

Round Retroreflectors

Catalog Number	Diameter A	Hole Size B	Thickness C
6200A-6501	3.30 (84)	0.20 (5)	0.35 (9)
6200A-6502	2.40 (61)	None	0.30 (7.5)
6200A-6504	1.30 (33)	None	0.25 (6)
6200A-6505	2.40 (61)	0.25 (6)	0.30 (7.5)
6200A-6506	3.30 (84)	0.20 (5)	0.30 (7.5)
E51KR32	1.25 (32)	None	0.35 (9)
E51KR84	3.30 (84)	0.20 (5)	0.35 (9)