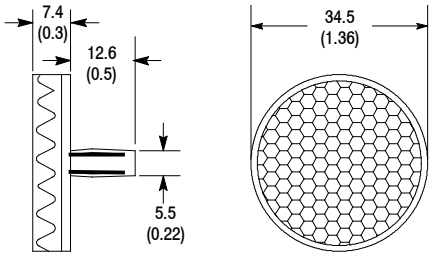
Specifications

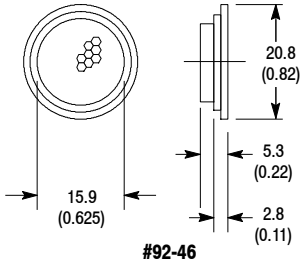
Cat. No.	92-106
Description	Reflector, 32 mm (1.25 in.) dia. with snap fit post
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	150 mm (6 in.)…1.5 m (5 ft)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).

Approximate Dimensions [mm (in.)]



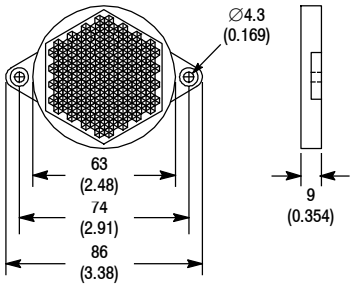
#92-106

Cat. No.	92-46
Description	Reflector, 16 mm (0.625 in.) dia. Requires adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	51 mm (2 in.)…150 mm (6 in.)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).



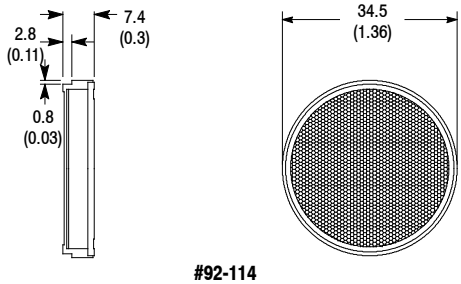
#92-46

Cat. No.	92-90
Description	Reflector, 86 mm (3 in.) dia. with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	51 mm (2 in.)…1.5 m (5 ft)
Recommended Application	Suitable for ClearSight photoelectric sensors and general purpose applications up to 65°C (150°F).



#92-90

Cat. No.	92-114
Description	Reflector, 34 mm (1.35 in.) dia. Requires adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Micro cube
Optimum Range❶	
Recommended Application	Ideal for laser-based photoelectric sensors such as LaserSight as well as general purpose applications up to 65°C (150°F).



#92-114

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.
❷ Cat. Nos. 92-47 and 92-46 can be mounted with adhesive tape (not included).

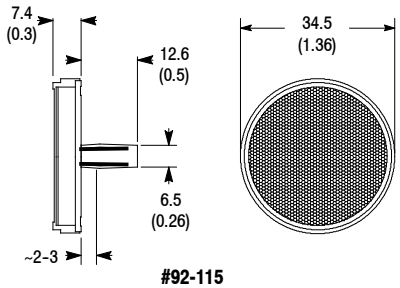
Accessories

Reflectors, Reflective Tape

Specifications

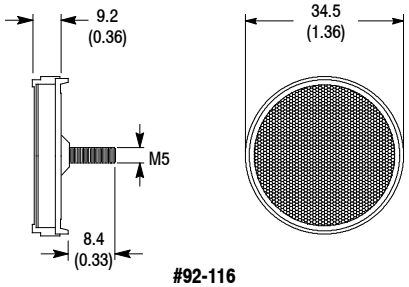
Cat. No.	92-115
Description	Reflector, 34 mm (1.35 in.) dia. with snap fit post.
Suitable for Polarized Sensor	Yes
Cube Style	Micro cube
Optimum Range❶	
Recommended Application	Ideal for laser-based photoelectric sensors such as LaserSight as well as general purpose applications up to 65°C (150°F).

Approximate Dimensions [mm (in.)]



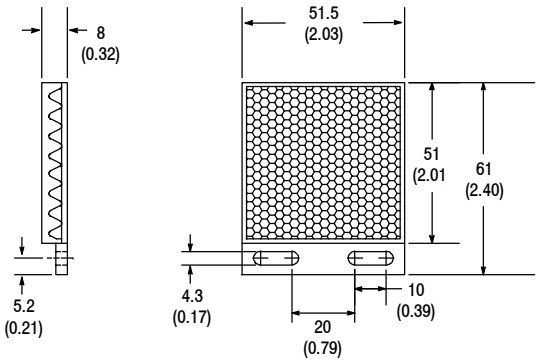
#92-115

Cat. No.	92-116
Description	Reflector, 34 mm (1.35 in.) dia. with threaded post.
Suitable for Polarized Sensor	Yes
Cube Style	Micro cube
Optimum Range❶	
Recommended Application	Ideal for laser-based photoelectric sensors such as LaserSight as well as general purpose applications up to 65°C (150°F).



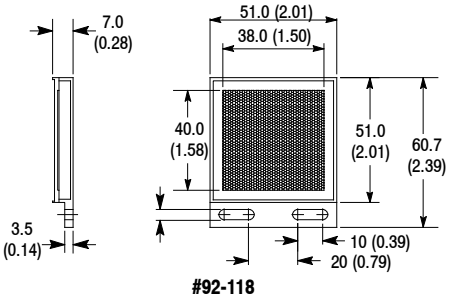
#92-116

Cat. No.	92-109
Description	Reflector, 51 x 61 mm (2 x 2.5 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	51 mm (2 in.)…3.0 m (10 ft)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).



#92-109

Cat. No.	92-118
Description	Reflector, 51 x 61 mm (2 x 2.5 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Micro cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 65°C (150°F). The Cat. No. 92-118 is also suitable for laser-based photoelectric sensors such as LaserSight.



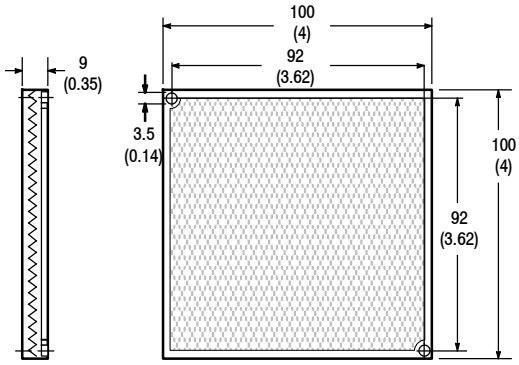
#92-118

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.

Specifications

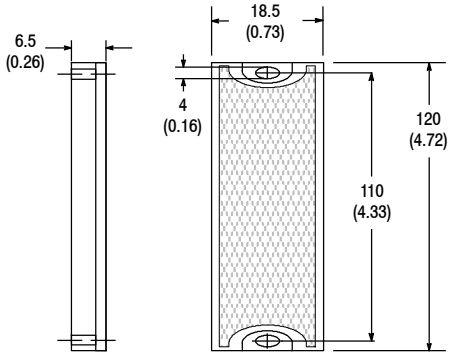
Cat. No.	92-108
Description	Reflector, 100 x 100 mm (4 x 4 in.) square with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	150 mm (6 in.)…3.0 m (10 ft)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).

Approximate Dimensions [mm (in.)]



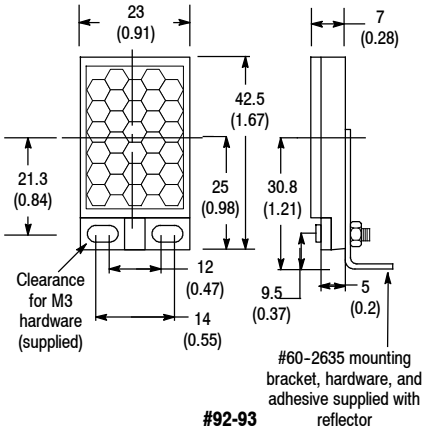
#92-108

Cat. No.	92-107
Description	Reflector, 18.5 x 120 mm (0.73 x 4.72 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	51 mm (2 in.)…1.5 m (5 ft)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).



#92-107

Cat. No.	92-93
Description	Reflector, 23 x 42.5 mm (0.91 x 1.67 in.) rectangular with mounting tabs and bracket. Right angle bracket and adhesive tape.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	51 mm (2 in.)…150 mm (6 in.)
Recommended Application	Suitable for general purpose applications up to 55°C (130°F).



#92-93

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.

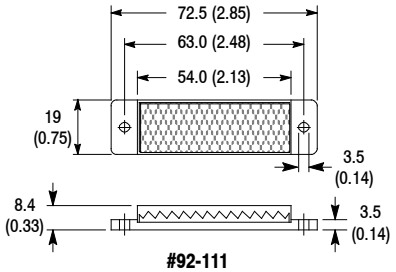
Accessories

Reflectors, Reflective Tape

Specifications

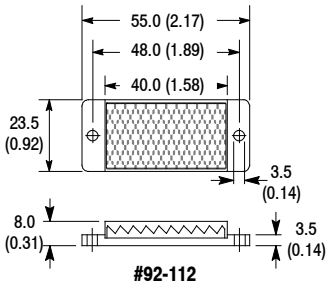
Approximate Dimensions [mm (in.)]

Cat. No.	92-111
Description	Reflector, 19 x 72.5 mm (0.75 x 2.85 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 55°C (130°F).



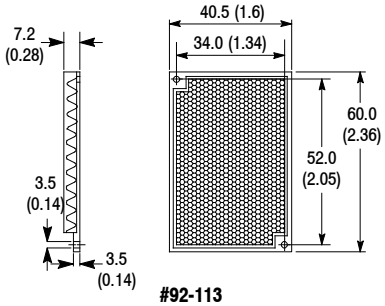
#92-111

Cat. No.	92-112
Description	Reflector, 23.5 x 55 mm (0.924 x 2.17 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 55°C (130°F).



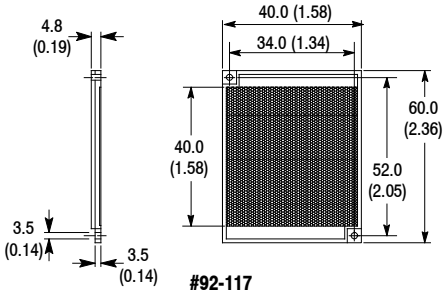
#92-112

Cat. No.	92-113
Description	Reflector, 40.5 x 60 mm (1.6 x 2.36 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 55°C (130°F).



#92-113

Cat. No.	92-117
Description	Reflector, 40.5 x 60 mm (1.6 x 2.36 in.) rectangular with mounting tabs.
Suitable for Polarized Sensor	Yes
Cube Style	Micro cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 55°C (130°F). The **92-117** is also suited for laser-based photoelectric sensors such as LaserSight.



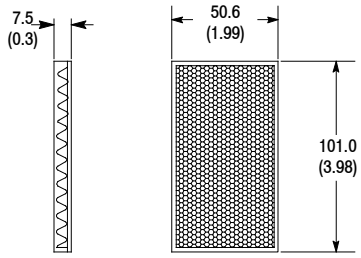
#92-117

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.

Specifications

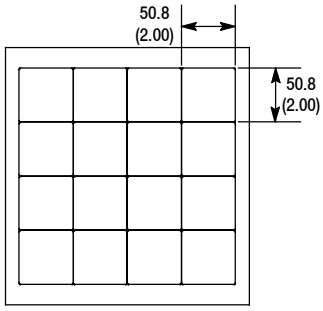
Cat. No.	92-119
Description	Reflector, 51 x 101 mm (2 x 4 in.) rectangular with adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Corner cube
Optimum Range❶	
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).

Approximate Dimensions [mm (in.)]



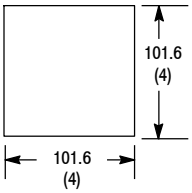
#92-119

Cat. No.	92-97
Description	Reflective tape, 51 mm (2 in.) square, sheet of 16 pieces with adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Glass bead
Optimum Range❶	150 mm (6 in.)…1.5 m (5 ft)
Recommended Application	Suitable for general purpose applications up to 121°C (250°F). Also suitable for polarized retroreflective sensors.



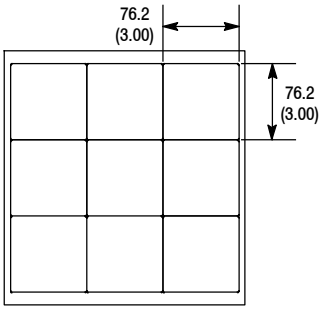
#92-97

Cat. No.	92-91
Description	Reflective metal, 100 x 100 mm (4 x 4 in.) square.
Suitable for Polarized Sensor	No
Cube Style	Glass bead
Optimum Range❶	150 mm (6 in.)…1.5 m (5 ft)
Recommended Application	The Cat. No. 92-91 is intended for use in high temperature applications up to 480°C (900°F) but not with polarized retroreflective sensors.



#92-91

Cat. No.	92-98
Description	Reflective tape, 76 mm (2.75 in.) square, sheet of 9 pieces with adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Glass bead
Optimum Range❶	150 mm (6 in.)…1.5 m (5 ft)



#92-98

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.

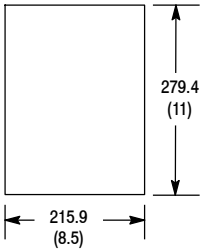
Accessories

Reflectors, Reflective Tape

Specifications

Cat. No.	92-104
Description	Reflective tape, 215.9 x 279.4 mm (8.5 x 11 in.) sheet with adhesive backing.
Suitable for Polarized Sensor	Yes
Cube Style	Glass bead
Optimum Range❶	200 mm (8 in.)…1.5 m (5 ft)
Recommended Application	Suitable for general purpose applications up to 60°C (140°F) with polarized retroreflective sensors.

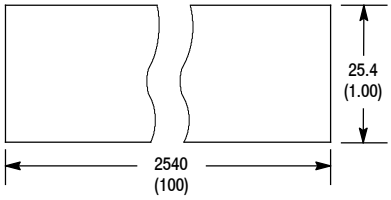
Approximate Dimensions [mm (in.)]



#92-104

Cat. No.	92-99
Description	Reflective tape, roll of 25 x 2540 mm (1 x 100 in.).
Suitable for Polarized Sensor	Yes
Cube Style	Glass bead
Optimum Range❶	150 mm (6 in.)…1.0 m (40 in.)
Recommended Application	Suitable for general purpose applications up to 65°C (150°F).

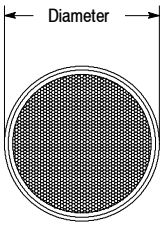
Cat. No.	92-100
Description	Reflective tape, 25 x 2540 mm (1 x 100 in.).
Suitable for Polarized Sensor	No
Cube Style	Glass bead
Optimum Range❶	150 mm (6 in.)…1.0 m (40 in.)
Recommended Application	Suitable for general purpose applications up to 79°C (175°F).



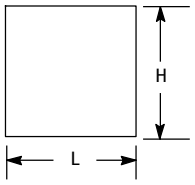
#92-99 & #92-100

❶ Optimum range varies with sensor optics. See table on page 1-315 for reflectivity performance.

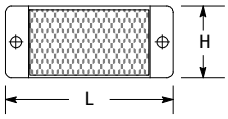
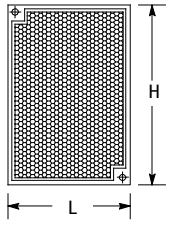
Round Reflectors

Diameter [mm (in.)]	Cube Style	Mounting	Temperature	Approximate Dimensions [mm (in.)]	Cat. No.
76.2 (3)	Corner Cube	Thru-Hole	≤ 65°C (150°F)		**92-39**
76.2 (3)					**92-89**
31.75 (1.25)		Adhesive			**92-47**
31.75 (1.25)		M5 Screw			**92-105**
31.75 (1.25)		Snap-Fit			**92-106**
31.75 (1.25)	Micro Cube	Adhesive			**92-114**
31.75 (1.25)		Snap-Fit			**92-115**
31.75 (1.25)		M5 Screw			**92-116**
19.05 (0.75)	Corner Cube	Adhesive			**92-46**
57.15 (2.25)		Thru-Hole x 2			**92-90**

Reflective Tape

Length x Height [mm (in.)]	Cube Style	Mounting	Temperature	Approximate Dimensions [mm (in.)]	Cat. No.
50 x 50 (2 x 2) (16 per sheet)	Glass Bead	Adhesive	<121°C (250°F)		**92-97**
76 x 76 (3 x 3) (9 per sheet)					**92-98**
100 x 100 (3.94 x 3.94)			<60°C (140°F)		**92-104**
			<480°C (900°F)		**92-91**
2510 x 25 (98.8 x 0.98) (1 roll)			≤ 65°C (150°F)		**92-99**
			<79°C (175°F)		**92-100**

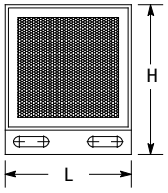
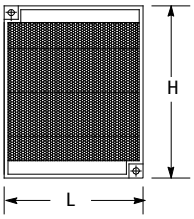
Rectangular Reflectors

Length x Height [mm (in.)]	Cube Style	Mounting	Temperature	Approximate Dimensions [mm (in.)]	Cat. No.
40.5 x 60 (1.59 x 2.36)	Corner Cube	Thru-Hole x 2	<55°C (130°F)	 **92-112, 92-111, 92-107**	**92-113**
50.6 x 101 (1.99 x 3.98)		Adhesive	<65°C (150°F)		**92-119**
18.5 x 120 (0.73 x 4.72)		Thru-Hole x 2			**92-107**
55 x 23.5 (2.17 x 0.93)			<55°C (130°F)	 **92-113, 92-117, 92-119**	**92-112**
72.5 x 19 (2.85 x 0.75)					**92-111**
42 x 22 (1.65 x 0.87)					**92-93**

Accessories

Reflectors, Reflective Tape

Square Reflectors

Length x Height [mm (in.)]	Cube Style	Mounting	Temperature	Approximate Dimensions [mm (in.)]	Cat. No.
100 x 100 (3.94 x 3.94)	Corner Cube	Thru-Hole x 2	≤ 65°C (150°F)	 92-108, 92-117	**92-108**
51.5 x 61 (2.08 x 2.40)					**92-109**
40 x 60 (1.57 x 2.36)					**92-117**
51 x 60.7 (2.01 x 2.39)	Micro Cube			 92-109, 92-118	**92-118**

For more detailed dimensions, please refer to *www.ab.com/e-tools*.

Relative Reflectivity

Reflectivity varies with distance and with sensor optics. The table below is designed to be used as a comparison between reflectors. The numbers represent a reflectivity at a given range by a class of sensors relative to the standard 92-39 3 in. round reflector.

The two classes of sensors shown represent optic styles. The standard size optic includes the Series 9000, 10,000, 5000, and 4000.

The miniature optics are used in the smaller sensor families: RightSight™, MiniSight™, 5000, 6000, and 7000 Series.

Reflector		Standard Polarized Sensors			Miniature Polarized Sensors			Laser-Based Sensors	
		Series 10,000, 9000, 5000, and 4000			RightSight, MiniSight, Series 6000, 7000, and 42xx			LaserSight	
Cat. No.	Description	3.0 m (10 ft)	1.5 m (5 ft)	0.61 m (2 ft)	450 mm (18 in.)	200 mm (8 in.)	100 mm (4 in.)	15.2 m (50 ft)	3.05 m (10 ft)
92-39, 92-89	Reflector, 3 in. round	100	100	100	100	100	100	100	100
92-46	Reflector, 3/4 in. round	—	—	50	50	40	25	—	100
92-47	Reflector, 1 1/4 in. round	—	40	100	100	80	30	—	90
92-90	Reflector, 2 in. hexagon	70	150	150	350	150	200	130	100
92-91	Reflective tape, high temperature	—	—	—	—	—	—	—	—
92-93	Reflector, 3/4 x 1.5 in. rectangular	—	—	50	50	50	25	—	100
92-97	Reflector, 2 $in.^2$	—	90	150	200	80	50	—	80
92-98	Reflector, 2 3/4 $in.^2$	—	100	150	200	80	50	—	70
92-99	Reflective tape, polarized	—	40	70	100	50	30	—	—
92-100	Reflective tape, nonpolarized	—	—	—	—	—	—	—	—
92-104	Reflective tape, 8.5 x 11 in.	25	50	50	70	30	40	—	70
92-105	Reflector, 1 1/4 in. round	—	40	75	100	120	200	70	90
92-106	Reflector, 1 1/4 in. round	—	40	75	100	120	200	70	90
92-107	Reflector, 3/4 x 4 3/4 in. rectangular	—	50	100	100	60	60	—	110
92-108	Reflector, 4 $in.^2$ square	250	150	100	120	90	150	—	100
92-109	Reflector, 2 $in.^2$ square	100	150	100	100	90	150	150	110
92-111	Reflector, 2 x 1, rectangular	20	50	90	100	60	100	—	—
92-112	Reflector, 2.8 x 3/4 in. rectangular	20	60	100	100	60	110	—	100
92-113	Reflector, 1.6 x 2 1/4 in. rectangular	90	115	50	90	50	170	210	110
92-114	Reflector, 1 1/4 in. round	20	70	70	90	20	—	110	110
92-115	Reflector, 1 1/4 in. round	20	70	70	90	20	—	110	110
92-116	Reflector, 1 1/4 in. round	20	70	70	90	20	—	110	110
92-117	Reflector, 1 1/2 x 2 1/4 in. rectangular	30	130	140	200	60	50	30	100
92-118	Reflector, 2 x 2 rectangular	80	70	50	50	30	—	260	90

For more information on the theory of retroreflective sensing, see page 1-22. Some variation may be seen across the reflector. Data was measured with reflector rotating to normalize reflectance.

Notes