

**Comet Thru-Beam
Receiver with Cable
2XCA8****SM Series
Retro-Reflective,
Background
Rejection with Cable
2XDL4****Enhanced 50 Series
Polarized Retro-Reflective
with 4-Pin Micro
2XCK1****EAT·N**

Photoelectric Sensors

COMET SERIES

- IP69K rating
- Solid-state AC/DC models rated for 300mA; DC-only models rated for 250mA NPN and 100mA PNP
- Light/dark operation
- Temp. range: -4° to 158°F thru-beam source 2UUT5, 2UUT6, 2XCA1, and 2XCA2, and -13° to 151°F for 2XCA3 to 2XCA7
- Temp. range: -40° to 158°F all others

Industry-standard 18mm threaded flat tubular body can be mounted like a tubular sensor or against any flat surface. Visible sensing beam simplifies setup and alignment. Solid polyurethane housing is highly resistant to shock and vibration. Adaptable modulation circuit protects against crosstalk. Background rejection models reliably detect targets regardless of color, reflectance, contrast, and surface shape. UL and C-UL Listed and CE Certified, except UL

508 Certified thru-beam source 2XCA3 to 2XCA7 and polarized retroreflective 2XCG3 are CSA and CE Certified.

ENHANCED 50 SERIES

- Light/dark operation
 - Temp. range: -13° to 151°F
- Fully potted construction for use in areas subject to washdown, high shock, or high vibration. High optical performance. Adjustable gain pots allow precise adjustment. CSA, CE, and UL 508 Certified.

SM SERIES

- Visible positioning aid
- Threaded barrel
- 18mm lens snout
- Miniature size fits small spaces
- Temp. range: -13° to 151°F

Visible sensing beam simplifies setup and alignment. TargetLock ensures reliable operation. LEDs indicate output/power/TargetLock.

Description	Item No.
Accessories	
For Use With Enhanced 50, 30mm Photoelectric Sensors	
Nickel-Plated Short Right Angle Mounting Bracket	2XCK4
Nickel-Plated Tall Right Angle Mounting Bracket	2XCK5
Plastic Ball Swivel Mounting Bracket	2XCK6
For Use With 18mm Photoelectric Sensors	
Plastic Ball Swivel Mounting Bracket	2XDG3
Aluminum Right Angle Mounting Bracket	2XCK7
Aluminum Flat Mounting Bracket	2XCK8

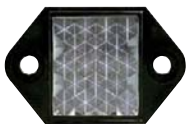
Description	Power Requirement	Circuit Type	Max. Load Current	Max. Sensing Distance	Dia.	2-METER CABLE Item No.	4-PIN MICRO Item No.
Cylindrical Photoelectric Sensor							
Diffuse							
Comet	10 to 30V DC	NPN/PNP	250 mA	610 mm	18 mm	2XCD1	2XCD3
Comet	10 to 30V DC	NPN/PNP	250 mA	100 mm	18 mm	2XCD9	2XCE2
Comet	10 to 30V DC	NPN/PNP	250 mA	50 mm	18 mm	2XCE4	—
Comet	10 to 30V DC	NPN/PNP	100 mA	50 mm	18 mm	—	2XCE6
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	100 mm	18 mm	2XCD8	2XCE1
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	50 mm	18 mm	2XCE3	2XCE5
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	610 mm	18 mm	2XCC9	2XCD2
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	610 mm	18 mm	2XCD5	2XCD7
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	50 mm	18 mm	2XCE8	2XCF1
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	100 mm	18 mm	2XCF5	2XCF3
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	50 mm	18 mm	2XCE7	2XCE9
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	100 mm	18 mm	2XCF4	2XCF2
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	610 mm	18 mm	2XCD4	2XCD6
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	50 mm	18 mm	2XDL8	2XDL9
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	100 mm	18 mm	2XDN7	2XDN8
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	200 mm	18 mm	2XDR5	2XDR6
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	50 mm	18 mm	2XDL4	2XDL5
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	100 mm	18 mm	2XDN3	2XDN4
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	200 mm	18 mm	2XDR1	2XDR2
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	50 mm	18 mm	2XDN1	2XDN2
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	100 mm	18 mm	2XDR7	2XDR1
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	200 mm	18 mm	2XDL6	2XDL7
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	50 mm	18 mm	2XDN5	2XDN6
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	100 mm	18 mm	2XDR3	2XDR4
Cylindrical Photoelectric Sensor Receiver							
Through Beam Receiver							
Comet	10 to 30V DC	NPN/PNP	250 mA	24 m	18 mm	2XCA9	2XCC2
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	24 m	18 mm	2XCA8	2XCC1
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	15 m	18 mm	2XDR9	2XDT1
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	15 m	18 mm	2XDT2	2XDT3
Cylindrical Photoelectric Sensor Transmitter							
Through Beam Transmitter							
Comet	10 to 30V DC	NPN/PNP	250 mA Transmitter	18 mm	18 mm	2UUT6	2XCA2
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA Transmitter	18 mm	18 mm	2UUT5	2XCA1
SM	10 to 30V DC	NPN/PNP	100 mA Transmitter	18 mm	18 mm	2XDT4	2XDT5
Photoelectric Sensor							
Diffuse							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	3 m	46 mm	2XCF8	2XCG2
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	3 m	46 mm	2XCF7	2XCF9
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	3 m	46 mm	2XCF6	2XCG1
Retroreflective							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	4.9 m	46 mm	2XCI9	2XCK3
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	9 m	46 mm	2XCI3	2XCI6
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	4.9 m	46 mm	2XCI7	2XCK2
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	4.9 m	46 mm	2XCI8	2XCK1
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	9 m	46 mm	2XCI1	2XCI5
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	9 m	46 mm	2XCI2	2XCI4
Through Beam Receiver							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	152 m	46 mm	2XCC5	2XCC8
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	152 m	46 mm	2XCC4	2XCC6
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	152 m	46 mm	2XCC3	2XCC7
Through Beam Transmitter							
Enhanced 50	10 to 40V DC	—	—	152 m	46 mm	2XCA4	2XCA7
Enhanced 50	24 to 240V AC/12 to 240V DC	—	—	152 m	46 mm	2XCA3	2XCA5
Enhanced 50	24 to 240V AC/12 to 240V DC	—	—	152 m	46 mm	—	2XCA6

† 5-pin micro style connector.

Reflectors

CORNER CUBE REFLECTORS

Retroreflective prisms return a beam in the same direction it came from—even if the reflector and the source are skewed—for a high degree of reliability. The only reflective surface that works with polarized photoelectric sensors. Select reflector smaller than your target.

**5B151****5B317**

Item	Shape	Color	Material	Mounting Hole	Luminance Factor	Max. Temp.	Dia.	L	W	D	Brand	Mfr. Model	Item No.
For Use With Polarized Retroreflective Photoelectric Sensors													
Corner Cube Reflector	Rectangular	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	1.3 in	1.1 in	—	Telemecanique	XUZZC24	5B151
	Square	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	2 in	2 in	—	Telemecanique	XUZZC50	5B150
	Round	Silver	Acrylic	Center	4000X	150 °F	3 in	—	—	—	Telemecanique	RF30	5B317
Flat Reflector	Round	Silver	Plastic	Center	3000X	158 °F	3 in	—	—	0.125 in	Eaton	E51KR84	2XCK9
	Round	White	Plastic	—	4000X	131 °F	1.5 in	1.5354 in	—	—	Telemecanique	XUZZC39	48T097
Photoelectric Sensor Reflector 39Mm	Round	White	Plastic	—	4000X	131 °F	3 in	3.1496 in	—	—	Telemecanique	XUZZC80	48T098
Reflective Tape	Rectangular	Silver	Paper	—	2000X	140 °F	—	39 in	0.9063 in	0.0156 in	Telemecanique	XUZZB11	2DC01
	Rectangular	Silver	Paper	—	2000X	140 °F	—	196 in	0.9063 in	0.0156 in	Telemecanique	XUZZB15	2DC02
For Use With Retroreflective Sensors													
Flat Reflector	Rectangular	Black	Acrylic	Upper Left/Lower Right	—	131 °F	—	2.3594 in	1.5781 in	0.2969 in	Omron	E39-R1	1DU37
	Round	White/clear	Plastic	—	—	140 °F	1 in	—	—	0.1875 in	ifm	E20003	35T436
	Round	White/clear	Plastic	—	—	140 °F	1.5 in	—	—	0.1875 in	ifm	E20004	35T437
	Round	White/clear	Plastic	Center	—	140 °F	3 in	—	—	0.3125 in	ifm	E20005	35T438

