



**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

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.

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

Description	Item No.
<b>Accessories</b>	
<b>For Use With Enhanced 50, 30mm Photoelectric Sensors</b>	
Nickel-Plated Short Right Angle Mounting Bracket	2XCK4
Nickel-Plated Tall Right Angle Mounting Bracket	2XCK5
Plastic Ball Swivel Mounting Bracket	2XCK6
<b>For Use With 18mm Photoelectric Sensors</b>	
Plastic Ball Swivel Mounting Bracket	2XD03
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.
<b>Cylindrical Photoelectric Sensor</b>							
<b>Diffuse</b>							
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	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	18 mm	2XCE7	2XCE9
Comet 90° View 20 to 264V AC/15 to 30V DC	NPN	300 mA	100 mm	18 mm	18 mm	2XCF4	2XCF2
Comet 90° View 20 to 264V AC/15 to 30V DC	NPN	300 mA	610 mm	18 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	2XDN9	2XDP1
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	200 mm	18 mm	2XDR7	2XDR8
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	50 mm	18 mm	2XDL6	2XDL7
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	100 mm	18 mm	2XDN5	2XDN6
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	200 mm	18 mm	2XDR3	2XDR4
<b>Retroreflective</b>							
Comet	10 to 30V DC	NPN/PNP	250 mA	4.5 m	18 mm	2XCG4	2XCG6
Comet	10 to 30V DC	NPN/PNP	250 mA	7.6 m	18 mm	2XCH3	2XCH5
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	7.6 m	18 mm	2XCH2	2XCH4
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	4.5 m	18 mm	2XCG3	2XCG5
Comet 90° View	10 to 30V DC	NPN/PNP	250 mA	4.5 m	18 mm	2XCH7	2XCH9
Comet 90° View	15 to 30V DC	NPN/PNP	250 mA	3.0 m	18 mm	2XCG8	2XCH1
Comet 90° View 20 to 264V AC/15 to 30V DC	NPN	300 mA	3.0 m	18 mm	18 mm	2XCG7	2XCG9
Comet 90° View 20 to 264V AC/15 to 30V DC	NPN	300 mA	4.5 m	18 mm	18 mm	2XCH6	2XCH8
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	3.0 m	18 mm	2XDP6	2XDP7
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	3.0 m	18 mm	2XDP2	2XDP3
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	3.0 m	18 mm	2XDP8	2XDP9
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	3.0 m	18 mm	2XDP4	2XDP5
<b>Cylindrical Photoelectric Sensor Receiver</b>							
<b>Through Beam Receiver</b>							
Comet	10 to 30V DC	NPN/PNP	250 mA	24.0 m	18 mm	2XCA9	2XCC2
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	24.0 m	18 mm	2XCA8	2XCC1
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	15.0 m	18 mm	2XDR9	2XDT1
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	15.0 m	18 mm	2XDT2	2XDT3
<b>Cylindrical Photoelectric Sensor Transmitter</b>							
<b>Through Beam Transmitter</b>							
Comet	10 to 30V DC	NPN/PNP	250 mA	Transmitter	18 mm	2UUT6	2XCA2
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	Transmitter	18 mm	2UUT5	2XCA1
SM	10 to 30V DC	NPN/PNP	100 mA	Transmitter	18 mm	2XDT4	2XDT5
<b>Photoelectric Sensor</b>							
<b>Diffuse</b>							
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
<b>Retroreflective</b>							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	4.9 m	46 mm	2XCJ9	2XCK3
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	9 m	46 mm	2XCJ3	2XCK6
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	4.9 m	46 mm	2XCJ7	2XCK2
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	4.9 m	46 mm	2XCJ8	2XCK1 †
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	9 m	46 mm	2XCJ1	2XCK5
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	9 m	46 mm	2XCJ2	2XCK4 †
<b>Through Beam Receiver</b>							
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
<b>Through Beam Transmitter</b>							
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**

Retroreflector 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. For use with retroreflective photoelectric sensors. The only reflective surface that works with polarized photoelectric sensors. Select reflector smaller than your target.

Item	Shape	Color	Material	Mounting Hole	Luminance Factor	Max. Temp.	Dia.	L	W	D	Brand	Mfr. Model	Item No.
<b>For Use With Polarized Retroreflective Photoelectric Sensors</b>													
Corner Cube Reflector	Rectangular	Amber	Acrylic	—	4000X	150 °F	—	3.25 in	1.5 in	—	Telemecanique	RF13	5B319
	Rectangular	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	1.3 in	1.1 in	—	Telemecanique	XUZC24	5B151
	Square	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	2 in	2 in	—	Telemecanique	XUCZ50	5B150
Flat Reflector	Round	Silver	Acrylic	Center	4000X	150 °F	3 in	—	—	—	Telemecanique	RF30	5B317
	Round	Silver	Acrylic	Center	4000X	150 °F	2 in	—	—	—	Telemecanique	RF20	5B318
	Round	Silver	Acrylic	—	4000X	150 °F	1 in	—	—	—	Telemecanique	RF10	5B320
	Round	Silver	Plastic	Center	3000X	158 °F	3 in	—	—	0.125 in	Eaton	E51KR84	2XCK9
Reflective Tape	Rectangular	Silver	Paper	—	2000X	140 °F	—	39 in	0.9063 in	0.0156 in	Telemecanique	XUZB11	2DC01
	Rectangular	Silver	Paper	—	2000X	140 °F	—	196 in	0.9063 in	0.0156 in	Telemecanique	XUZB15	2DC02
<b>For Use With Retroreflective Sensors</b>													
Flat Reflector	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	—	—	ifm	E20005	35T438
Reflective Tape	Rectangular	White	Paper	—	200X	200 °F	—	12 in	3 in	0.0156 in	Telemecanique	RF7590	2CW09
	Rectangular	White	Paper	—	670X	150 °F	—	12 in	3 in	0.0156 in	Telemecanique	RF3930	2CW08
	Rectangular	White	Paper	—	900X	175 °F	—	12 in	2 in	0.0156 in	Telemecanique	RF7610	2CW10

