Photoelectric Sensors

Enhanced 50 Series Sensors

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Product Description

The new Enhanced versions of the 50 Series[™] Photoelectric Sensors from Eaton's electrical sector offer flexibility, durability and high optical performance in a costeffective self-contained package. Choose from three output types, four time delay functions, six sensing modes and four connection styles to tailor the sensor to exactly meet your needs.

Sensors are available in thrubeam, reflex, polarized reflex, diffuse reflective, clear object, and fiber optic sensing modes. Brackets are available for easy mounting and to allow precise adjustment of sensor alignment.

Features

- High optical performance models including a 500 ft (152m) thru-beam and a 10 ft (3m) diffuse reflective unit
- Output options include a 3 Amp SPDT relay
- All units offer light/dark selection
- Logic options include ON-delay, OFF-delay, ON/OFF-delay and oneshot delay
- Fiber optic sensors operate in thru-beam or diffuse reflective mode depending on the fiber optic cable selected
- Fully potted construction for use in areas subject to washdown, high shock and/or vibration
- Choice of pre-wired power cable, built-in miniconnector, built-in microconnector and pigtail micro-connector versions. Standard pre-wired cable length is 6 ft (2m)
- Variety of brackets available including ball swivel

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Standards and Certifications

- CSA Approved
- Certified to UL Standard, UL 508



THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safetyrelated use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.

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 Guide

Connection Options

Cable Version



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Mini QD (Body)

Micro or Euro (Micro) QD (Body)





Product Selection

Thru-Beam Sensors

Field of View: 2.4°

Voltage Range	Sensing Range	Optimum Range	Sensing Beam	Thru-Beam Component	Output Type	Time Delay	Connection Type	Catalog Numbe	
	200 ft (61m)	0.1 to 100 ft (0.03 to 31m)	Infrared	Source	N/A	N/A	6 ft cable	1150E-6517	
				Detector	NPN/PNP 250 mA	no		1250E-6517	
							yes		1250E-8517
				Source	N/A	N/A	4-pin Euro (micro) connector 4-pin Euro (micro) connector (pigtail)	1150E-6547 🔅	
				Detector	NPN/PNP 250 mA	no		1250E-6547 🙂	
						yes		1250E-8547 🙁	
				Source	N/A	N/A		1150E-6537 🙁	
				Detector	NPN/PNP 250 mA	no		1250E-6537 🙁	
						yes		1250E-8537 🙁	
				Source	N/A	N/A	4-pin mini- connector	1150E-6507 🙁	
				Detector	NPN/PNP 250 mA	no		1250E-6507 🕄	
						yes		1250E-8507 🙁	
12-240 Vdc	200 ft (61m)	0.1 to 100 ft (0.03 to 31m)	Infrared	Source	N/A	N/A	6 ft cable	1150E-6513	
24–240 Vac				Detector	lsolated output solid-state relay 300 mA at 240 Vac/dc	no		1250E-6513	
						yes		1250E-8513	
					SPDT EM relay 3A at 120 Vac	no		1250E-6514	
						yes		1250E-8514	
				Source	N/A	N/A	4-pin micro- connector 4-pin micro- connector (pigtail)	1150E-6543 🕃	
				Detector	lsolated output solid-state relay 300 mA at 240 Vac/dc	no		1250E-6543 🕲	
						yes		1250E-8543 🙂	
				Source	N/A	N/A		1150E-6534 🙂	
				Detector	lsolated output solid-state relay 300 mA at 240 Vac/dc	no		1250E-6533 😮	
						yes		1250E-8533 🏽	
					SPDT EM relay 3A at 120 Vac	no	5-pin micro- connector (pigtail)	1250E-6534 🕄	
						yes		1250E-8534 😯	
				Source	N/A	N/A	4-pin mini-	1150E-6504 🙂	
				Detector	lsolated output solid-state relay 300 mA at 240 Vac/dc	no	connector	1250E-6503 🙁	
						yes		1250E-8503 🙁	
					SPDT EM relay	no	5-pin mini-	1250E-6504 😯	
					3A at 120 Vac	yes	connector	1250E-8504 😯	

Notes

: See listing of compatible connector cables on Page V8-T5-19.

 $\textcircled{\sc 0}$ For a complete system, order one sensor and one detector.

 $^{\textcircled{2}}$ For brackets compatible with these sensors, see Accessories on Page V8-T5-21.