

Enhanced 50 Series Sensors



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Enhanced 50 Series Sensors

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 cost-effective 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 thru-beam, 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 one-shot 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 micro-connector, built-in micro-connector and pigtail micro-connector versions. Standard pre-wired cable length is 6 ft (2m)
- Variety of brackets available including ball swivel

Standards and Certifications

- CSA Approved
- Certified to UL Standard, UL 508



⚠ DANGER

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 safety-related 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.

Field of View: 2.4°



Thru-Beam Extended Range ①②

Voltage Range	Sensing Range	Optimum Range	Sensing Beam	Thru-Beam Component	Output Type	Time Delay	Connection Type	Catalog Number		
10–40 Vdc	500 ft (152m)	0.1 to 250 ft (0.03 to 77m)	Infrared	Source	N/A	N/A	6 ft cable	1151E-6517		
				Detector	NPN/PNP 250 mA	no		1251E-6517		
						yes		1251E-8517		
				Source	N/A	N/A	4-pin Euro (micro) connector	1151E-6547 ☹		
				Detector	NPN/PNP 250 mA	no		1251E-6547 ☹		
						yes		1251E-8547 ☹		
				Source	N/A	N/A	4-pin Euro (micro) connector (pigtail)	1151E-6537 ☹		
				Detector	NPN/PNP 250 mA	no		1251E-6537 ☹		
						yes		1251E-8537 ☹		
				Source	N/A	N/A	4-pin mini-connector	1151E-6507 ☹		
				Detector	NPN/PNP 250 mA	no		1251E-6507 ☹		
						yes		1251E-8507 ☹		
12–240 Vdc 24–240 Vac	500 ft (152m)	0.1 to 250 ft (0.03 to 77m)	Infrared	Source	N/A	N/A	6 ft cable	1151E-6513		
				Detector	Isolated output solid-state relay 300 mA at 240 Vac/dc	no		1251E-6513		
						yes		1251E-8513		
								SPDT EM relay 3A at 120 Vac	no	1251E-6514
						yes		1251E-8514		
				Source	N/A	N/A		4-pin micro-connector	1151E-6543 ☹	
				Detector	Isolated output solid-state relay 300 mA at 240 Vac/dc	no	1251E-6543 ☹			
						yes	1251E-8543 ☹			
				Source	N/A	N/A	4-pin micro-connector (pigtail)	1151E-6534 ☹		
				Detector	Isolated output solid-state relay 300 mA at 240 Vac/dc	no		1251E-6533 ☹		
						yes		1251E-8533 ☹		
							5-pin micro-connector (pigtail)	SPDT EM relay 3A at 120 Vac	no	1251E-6534 ☹
						yes		1251E-8534 ☹		
				Source	N/A	N/A		4-pin mini-connector	1151E-6504 ☹	
				Detector	Isolated output solid-state relay 300 mA at 240 Vac/dc	no	1251E-6503 ☹			
						yes	1251E-8503 ☹			
							5-pin mini-connector	SPDT EM relay 3A at 120 Vac	no	1251E-6504 ☹
						yes		1251E-8504 ☹		

Notes

☹☹ See listing of compatible connector cables on [Page V8-T5-19](#).

① For a complete system, order one sensor and one detector.

② For brackets compatible with these sensors, see Accessories on [Page V8-T5-21](#).