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Enhanced 50 Series Sensors

Product Description

The new Enhanced versions of the 50 Series™ Photo-electric 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 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

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 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.

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Enhanced 50 Series Sensors

Reflex Sensors

Field of View: 1.0°

Standard Reflex 102



Voltage Range	Sensing Range ^③	Optimum Range ^③	Sensing Beam	Output Type	Time Delay	Connection Type	Catalog Number
10-40 Vdc 30	30 ft (9m)	0.5 to 15 ft (0.2 to 4.6m)	Visible red	NPN/PNP 250 mA	no	6 ft cable	1450E-6517
					yes		1450E-8517
					no	4-pin Euro (micro) connector	1450E-6547 😮
					yes		1450E-8547 😀
					no	4-pin Euro (micro) connector (pigtail)	1450E-6537 😀
					yes		1450E-8537 🙃
					no	4-pin mini-connector	1450E-6507 🙃
					yes		1450E-8507 😀
12–240 Vdc 24–240 Vac	30 ft (9m)	0.5 to 15 ft (0.2 to 4.6m)	Visible red	Isolated output solid-state relay 300 mA at 240 Vac/dc	no	6 ft cable	1450E-6513
					yes		1450E-8513
					no	4-pin micro-connector	1450E-6543 😮
					yes		1450E-8543 😮
					no	4-pin micro- connector (pigtail)	1450E-6533 😮
					yes		1450E-8533 😮
					no	4-pin mini-connector	1450E-6503 😮
					yes		1450E-8503 😀
				SPDT EM relay 3A at 120 Vac	no	6 ft cable	1450E-6514
					yes		1450E-8514
					no	5-pin micro- connector (pigtail)	1450E-6534 😯
					yes		1450E-8534 😯
					no	5-pin mini-connector	1450E-6504 😯
					yes		1450E-8504 😯

Notes

 $\textcircled{\ensuremath{\mathfrak{B}}} \textcircled{\ensuremath{\mathfrak{C}}}$ See listing of compatible connector cables on Page V8-T5-19.

- ① For a complete system, order one sensor and one retroreflector (see **Tab 8**, **section 8.1**).
- $@\$ For brackets compatible with these sensors, see Accessories on Page V8-T5-21.
- 3 Ranges based on 3 in retroreflector for reflex sensors.

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