

Top five product features!

- Bright red Class 1 laser light source provides visual indication of beam alignment
- Small package, long range! Compact design is ideal for applications with limited mounting space
- Advanced microprocessor provides powerful signal processing and enables automatic adjustments to maximize safety margin in an application
- Sensor continuously monitors the strength of the received signal and provides a visual LED alert under marginal operating conditions
- Programmable light on / dark on for application flexibility

Differentiates target from background at less than 0.5 mm

High resolution background suppression laser sensors are ideal for precise sensing applications. The sensor can differentiate between the target and the background at less than 0.5 mm. This type of accuracy is critical for assembly automation applications such as part present and inspection. The OJ's collimated laser beam provides the same beam width up to a distance of 200 mm.

An advanced microprocessor provides powerful signal processing and analysis capabilities. This enables the OJ to learn the characteristics of both the target and the background in a specific application.

During initial installation, the automatic calibration will determine the light conditions of both the target-present and target-not-present conditions. The sensitivity of the OJ will then be automatically adjusted so there is a maximum safety margin under each condition.

For application versatility, OJ sensors are available in two lens configurations, side sensing and front sensing.



Diode array sensing technology



The OJ incorporates diode array technology that enables the sensor to differentiate between the target and the background.

The sensing element contains 63 diode receivers that are placed on an integrated circuit. The array

is extremely small allowing it to fit inside the OJ's miniature housing.





Product + accessory selector

Function		Range	Output	Switching Frequency	Spot Ø at Max. Range	Supply Current	Light Source	Part No.	List Price (1-pc.)
Diffuse background suppression		7150 mm	LO/DO, PNP	1000 Hz	0.8 mm	13 mA	Class 1 Laser	OJ5058	\$227.00
Diffuse background suppression		15200 mm	LO/DO, PNP	1000 Hz	1 x 2 mm	13 mA	Class 1 Laser	OJ5054	\$227.00
		15200 mm	LO/DO, NPN	1000 Hz	1 x 2 mm	13 mA	Class 1 Laser	OJ5055	\$227.00
Polarized retro-reflective	2	08 m	LO/DO, PNP	2000 Hz	12 mm	15 mA	Class 1 Laser	OJ5036	\$202.00
Thru-beam receiver	→	01 m	LO/DO, PNP	1200 Hz	_	12 mA	Class 1 Laser	OJ5042	\$96.00
Thru-beam transmitter	→→	01 m	_	_	4 mm	12 mA	Class 1 Laser	OJ5041	\$152.00
Thru-beam receiver	→	015 m	LO/DO, PNP	1200 Hz	-	12 mA	Class 1 Laser	OJ5039	\$96.00
Thru-beam transmitter	→	015 m	-	-	24 mm	12 mA	Class 1 Laser	OJ5038	\$152.00

Optional Accessories

Description	Part No.	List Price (1-pc.)	
Fine adjust bracket for OJsensor	E20976	\$26.00	
Ball and socket bracket for OJ	E20974	\$13.00	
10 x 50 mm reflector	E20988	\$16.00	
50 x 50 mm reflector	E20722	\$15.00	
10 mm reflector	E20990	\$12.00	
19 mm reflector	E20993	\$12.00	
	Fine adjust bracket for OJsensor Ball and socket bracket for OJ 10 x 50 mm reflector 50 x 50 mm reflector	Fine adjust bracket for OJsensor E20976 Ball and socket bracket for OJ E20974 10 x 50 mm reflector E20988 50 x 50 mm reflector E20722 10 mm reflector E20990	

Cordsets

Туре	Description	Part No.	List Price (1-pc.)	
	M8 Pico DC (4-pin) 2 m, PUR	EVC150	\$15.00	
6	M8 Pico DC (4-pin) 5 m, PUR	EVC151	\$18.00	
	M8 Pico DC (4-pin) 2 m, PUR	EVC153	\$15.00	
	M8 Pico DC (4-pin) 5 m, PUR	EVC154	\$18.00	



OJ sensors are available in two lens configurations, side sensing and front sensing. Visit www.ifm.com/us

Technical Specs

Lens material: Glass; except Part Nos. OJ5054, OJ5055, OJ5058: PMMA

Light source: Red light, 650 nm Housing material: ABS, Fixture: die cast zinc

LED window: SEPS Push button: SEPS 10...30 VDC 200 mA

Supply voltage: Max Load current: Voltage drop: <2.5 V negligible Leakage current:

14...140 °F (-10...60 °C) Operating temperature:

Protection:

CLASS 1 LASER PRODUCT IEC60825-1:2007 21CFR PART1040

Class 1 Laser



Simple and comprehensive website Data sheets, application examples,

software downloads, virtual product demos... just one click away.



Place orders, tech support 800-441-8246



