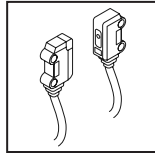




Amplified Mini Optical Sensors with Pin Point Beam

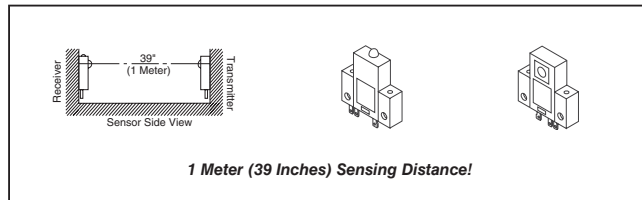
- Miniature optical sensor with "Pin-point" beam for sensing minute objects (1-2mm diameter)
- Use both indoors or outdoors for detecting where small body size is desired
- Perfect for security, conveyor detection as well as emergency stop detection and limit control and more
- Sensor not affected by ambient light
- Comes standard with 2 meter molded cords attached
- Terminal Type: 2m Cable



Sensing Method	Mounting Type/Features	Distance (Max.) Inches (M/mm)	Digi-Key Part No.	Price Each			Omron Part No.	
				1	25	100		
Through-Beam	Side/Light-On	39.37 (1M)	OR591-ND	92.90	83.61	78.97	E3T-ST11	
	Side/Dark-On	39.37 (1M)	OR592-ND	92.90	83.61	78.97	E3T-ST12	
Convergent Beam	Light-On	.59 (15mm)	Z1104-ND	57.70	53.43	46.31	E3T-SL11	
	Dark-On	.59 (15mm)	Z1105-ND	57.70	53.43	46.31	E3T-SL12	
Optional Flat Reflector for distances of 10-100 mm				Z2429-ND◆	5.71	5.29	4.58	E39-R37

◆ RoHS Compliant

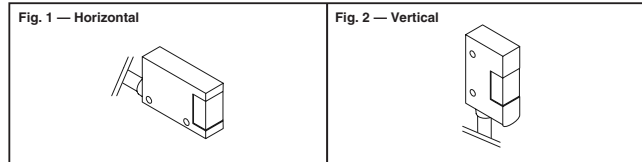
Amplified Optical Sensors



- One meter sensing distance
- Supply voltage of 5 – 24 VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with (2) – 2m cables with connectors

Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on	OR544-ND	92.35	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	92.35	EE-SPW411

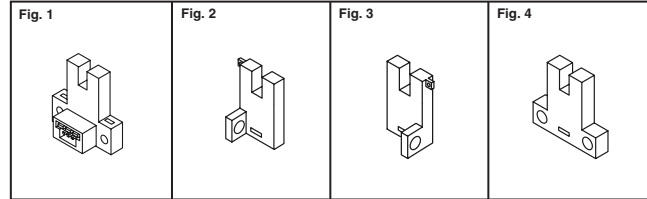
Long Distance Amplified Optical Sensors



These general purpose optical sensors are small DC Sensors (10 – 30VDC Input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23 feet (7 meters). Ideal for conveyor systems and doorway sensing with direct interface to PLC's. Meets NEMA 4X, 6 and IP67 standards. Through-beam sensors include separate transmitter and receiver. Reflective sensors include transceiver and E39-R1 reflector. Horizontal mount sensors include mounting bracket. All sensors include mounting hardware.

Fig.	Sensing Method	Mounting Type/Features	Dist. (Max.) Ft. (M)	Terminal Type	Digi-Key Part No.	Price Each			Omron Part No.
						1	25	100	
1	Through-Beam Reflective	Horizontal	22.97 (7)	2m Cable	OR584-ND	213.57	192.22	153.78	E3S-AT11
			6.56 (2)		OR585-ND	183.24	164.92	131.94	E3S-AR11
2	Through-Beam Reflective	Vertical	22.97 (7)	2m Cable	OR586-ND	170.86	153.78	145.23	E3S-AT61
			6.56 (2)		OR587-ND	183.24	164.92	131.94	E3S-AR61
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)				OR588-ND	6.12	5.52	4.41	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)				OR589-ND	17.61	15.85	14.97	E39-R5

Amplified Optical Sensors



EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.

Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each			Omron Part No.	
						1	25	50		
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	74.12	66.72	59.30	EE-SPX740	
				Light-On	OR616-ND	74.12	66.72	59.30	EE-SPX840	
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	74.12	66.72	59.30	EE-SPX742	
				Light-On	OR618-ND	74.12	66.72	59.30	EE-SPX842	
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	74.12	66.72	59.30	EE-SPX743	
				Light-On	OR620-ND	74.12	66.72	59.30	EE-SPX843	
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	74.12	66.72	59.30	EE-SPX741	
				Light-On	OR622-ND	74.12	66.72	59.30	EE-SPX841	
Snap-In connector w/cable for EE-SPX74/84 Series						OR623-ND◆	5.21	4.70	4.18	EE-1013

◆ RoHS Compliant

Non-Amplified Optical Sensors

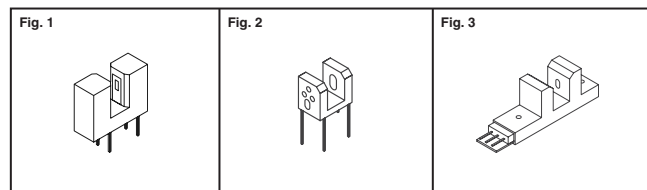


Fig.	Sensing Method	Sensing Distance	Terminal Type	Switch Time (MS)	Digi-Key Part No.	Price Each			Omron Part No.
						1	25	50	
1	Slot	5mm	PC Board	4/4	OR627-ND	1.34	1.21	1.08	EE-SX1081
		2mm			OR624-ND	1.34	1.21	1.08	EE-SX1018
		5mm			OR625-ND	1.34	1.21	1.08	EE-SX1041
		3.4mm			OR626-ND	1.34	1.21	1.08	EE-SX1071
		3mm			OR631-ND	1.34	1.21	1.08	EE-SX198NC
		3mm			OR632-ND	1.34	1.21	1.08	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	.98	.89	.79	EE-SX1103
		2mm			OR634-ND	.98	.89	.79	EE-SX1105
		3mm			OR635-ND	.98	.89	.79	EE-SX1106
3	Slot	5mm	AMP Connect Molex Connect	3KHz	OR629-ND	2.92	2.63	2.34	EE-SX4009-P1
					OR630-ND	3.60	3.25	2.89	EE-SX4009-P10

Non-Amplified Optical Sensors SMT



SMT compact size makes these sensors ideal for use in applications with restricted space. Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Distance	Term. Type	Type On/Off	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Omron Part No.
					1	25	50		Qty.	Pricing	
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	.98	.89	.79	OR628TR-ND	2,000	490.87/M	EE-SX1131
Slot	1mm	SMT	10/10	OR636CT-ND	.98	.89	.79	OR636TR-ND	2,500	490.87/M	EE-SX1107
	2mm			OR637CT-ND	.98	.89	.79	OR637TR-ND	2,000	490.87/M	EE-SX1108
	3mm			OR638CT-ND	.98	.89	.79	OR638TR-ND	1,000	490.87	EE-SX1109

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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