



OMRON E3S-C SERIES: LONG RANGE METAL BODY PHOTOELECTRIC SENSOR

Specifications:

- Supply voltage: 10-30 VDC
- Response time: CDx12 - 2 ms max.; all others - 1 ms max.
- Operation mode: Light-ON/Dark-ON, switch selectable
- Enclosure meets NEMA 1, 4X, 6P, 12, 13 and IP67
- Retroreflective type is polarized
- Pre-wired with 2m cable

Features:

- Mutual interference protection for diffuse reflective and retroreflective types
- Mounting bracket E39-L102 supplied with horizontal sensors
- Mounting bracket E39-L103 supplied with vertical sensors
- Retroreflective sensors include E39-R1 reflector
- Through-beam sensors include both emitter and receiver



For quantities of 20 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Type	Light Source	Mounting Position	Output	Range	Price Each			
							1	5	10	
653-E3S-CD61	E3S-CD61	Diffuse reflective	Infrared LED	Vertical	NPN/PNP	0 - 70cm	160.25	156.21	153.20	
653-E3S-CR61	E3S-CR61	Retroreflective	Red LED	Vertical	NPN/PNP	0 - 3m	163.45	158.50	154.50	
653-E3S-CT11	E3S-CT11	Through-beam	Infrared LED	Horizontal	NPN/PNP	0 - 30m	196.88	191.45	187.56	
653-E3S-CT61	E3S-CT61	Through-beam	Infrared LED	Vertical	NPN/PNP	0 - 30m	196.88	191.45	187.56	
Accessories							Description			
653-E39-R1	E39-R1	Reflector - supplied with retroreflective units, 100mm-6m sensing						1	25	50
653-E39-L7	E39-L7	Mounting bracket for E39-R1 reflector (not supplied with reflector)						13.45	10.15	9.67
							5.70	5.17	4.55	

OMRON E3T SERIES: ULTRA THIN, SUBMINIATURE PHOTOELECTRIC SENSOR

Specifications:

- Supply voltage: 12-24 VDC
- Response time: 1 ms max. each for on and off
- Circuit protection: Through-beam - from reversed polarity and output short-circuit; All others - reversed polarity, output short-circuit, and mutual interference
- Through-beam models sold as transmitter and receiver pair
- Light source: Red "pin-point" LED

Features:

- Utilizes Omron's "Hyper LED" technology to achieve the industry's smallest visible red beam
- Pin-point beam for detecting extremely small objects
- Retroreflective types use Omron's Free-Angle Optics (FAO) technology to detect objects as small as 2mm in diameter
- Self-contained - ideal for compact applications
- Retroreflective models include reflector E39-R4



RoHS Compliant

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MOUSER STOCK NO.	Omron Part No.	Type	Output/Sensing	Shape	Range	Price Each			
						1	5	10	
653-E3T-SL11	E3T-SL11	Convergent-beam	NPN/Light-ON	Side-view	5 - 15mm	70.19	68.85	66.90	
653-E3T-SL12	E3T-SL12	Convergent-beam	NPN/Dark-ON	Side-view	5 - 15mm	70.19	68.12	66.76	
653-E3T-SR212M	E3T-SR21 2M	Retroreflective	NPN/Light-ON	Side-view	10 - 200mm	90.50	88.24	86.48	
653-E3T-SR222M	E3T-SR22 2M	Retroreflective	NPN/Dark-ON	Side-view	10 - 200mm	87.35	85.16	83.47	
653-E3T-ST11	E3T-ST11	Through-beam	NPN/Light-ON	Side-view	1m	100.89	97.46	94.43	
653-E3T-ST12	E3T-ST12	Through-beam	NPN/Dark-ON	Side-view	1m	100.89	97.46	94.43	
Accessories							Description		
653-E39-R4	E39-R4	Reflector - supplied with retroreflective units, 10-200mm sensing					24.83	16.37	14.61
653-E39-L117	E39-L117	Side mounting bracket for sensors (2 required for through-beam)					9.57	9.31	8.80
653-E39-L118	E39-L118	Protective mounting bracket for sensors (2 required for through-beam)					10.91	10.23	9.73

OMRON E3Z SERIES: PHOTOELECTRIC SENSOR WITH BUILT-IN AMPLIFIER

Specifications:

- Supply voltage: 12-24 VDC
- Response time: 1 ms max. each for on and off
- Circuit protection: Through-beam - from reversed polarity and output short-circuit; all others - reversed polarity, output short-circuit, and mutual interference
- Through-beam models sold as transmitter and receiver pair
- Connection method: 2m cable
- Retroreflective type is polarized; reflector must be ordered separately

Features:

- Photo-IC provides long sensing distance - 15m for through-beam, 4m for retroreflective, and 1m for diffuse
- Integrated photo-IC improves noise immunity to interference from inverters and other inductive loads
- Enclosure rating (IP67 - IEC60529)
- Switch selectable Light-ON/Dark-ON operation



* Sensing Distance is 3 meters with E39-R1 reflector, 4 meters with E39-R1S reflector

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MOUSER STOCK NO.	Omron Part No.	Type	Light Source	Output	Range	Price Each			
						1	5	10	
653-E3Z-T61	E3Z-T61	Through-beam	Infrared LED	NPN	15m	100.43	98.43	95.82	
653-E3Z-R61	E3Z-R61	Retroreflective	Red LED	NPN	100mm to 3 or 4m *	79.98	76.17	74.19	
653-E3Z-D62	E3Z-D62	Diffuse reflective	Infrared LED	NPN	1m	76.36	73.21	70.70	
653-E3Z-D82	E3Z-D82	Diffuse reflective	Infrared LED	PNP	1m	107.02	104.36	101.67	
Accessories							Description		
653-E39-R1	E39-R1	Reflector, size 40 x 60mm					13.45	10.15	9.67
653-E39-L7	E39-L7	Mounting bracket for E39-R1 reflector					5.70	5.17	4.55
653-E39-R2	E39-R2	Reflector, size 80.8 x 60mm					19.46	14.99	13.56
653-E39-R3	E39-R3	Reflector, size 22.5 x 38mm					28.25	23.80	19.26
653-E39-RSA	E39-RSA	Adhesive back reflector sheet, size 35 x 10mm					8.22	7.59	6.97
653-E39-RSB	E39-RSB	Adhesive back reflector sheet, size 40 x 35mm					11.35	9.27	8.84
653-E39-L44	E39-L44	L-bracket, vertical mounting bracket					13.47	12.36	10.56
653-E39-L104	E39-L104	L-bracket, horizontal mounting bracket					7.79	7.58	7.17