

# OMRON Photoelectric Sensors and Fiber-Optic Amplifiers



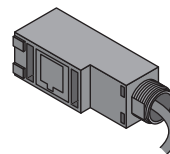
## OMRON E3JU SERIES: GENERAL PURPOSE PHOTOELECTRIC SENSORS

### Specifications:

- Output: SPDT relay
- Supply voltage: 24-240VAC/12-240VDC
- Operation mode: Light-ON/Dark-ON, switch selectable
- Indicators: Light incident (red LED); output operation (yellow LED); stability (green LED)
- Timer function type: ON-delay, OFF-delay, ON/OFF delay, one-shot, delayed one-shot; switch selectable
- Timer function range: .01 to 10 seconds

### Features:

- Universal AC/DC power supply
- Sensitivity adjustment
- NEMA 4X, IP67 rated
- Limit switch style
- 300-V cable connection



### Accessories

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Description	Price Each		
			1	5	10
653-E39-L7	E39-L7	Mounting bracket for E39-R1 reflector	6.80	6.18	5.66
653-E39-R1	E39-R1	Reflector, 100mm-6M sensing (Supplied with retroreflective type)	15.82	14.77	13.48
653-E39-R3	E39-R3	Small corner cube reflector (38 x 22 x 11mm)	30.61	29.79	28.18
653-E39-R4	E39-R4	Small corner cube reflector (23 x 14 x 5mm)	27.70	23.45	20.82

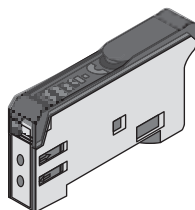
## OMRON E3X-NA SERIES: USER-FRIENDLY FIBER-OPTIC AMPLIFIERS

### Specifications:

- Supply voltage: 12-24 VDC
- Response time: 200 μs max.
- Operation mode: Light-ON, Dark-ON (switch selectable)
- Require fiber-optic cables, sold separately below. Other cables are available upon request.

### Features:

- Streamlined features provide basic sensing immediately after plug-in
- Wire-saving amplifiers reduce installation time and minimize space requirements
- Use the LED bar display to quickly confirm sensor performance
- Optical communication design prevents mutual interference for up to 5 amplifiers



RoHS Compliant

### Amplifiers

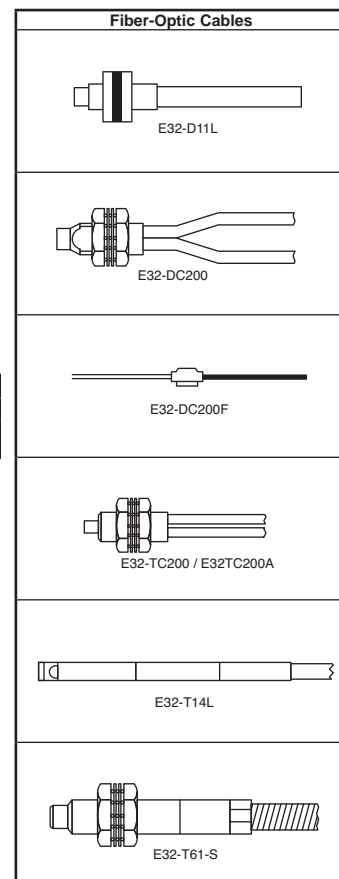
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Light Source	Output	Timing	Price Each		
					1	5	10
653-E3X-NA41	E3X-NA41	Red LED	PNP	N/A	174.57	152.80	143.77
653-E3X-NA512M	E3X-NA51 2M	Red LED	PNP	N/A	195.67	189.85	185.75

### Fiber-Optic Cables

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Type	Sensing Distance	Min. Det. Obj. (mm)	Appearance	Features	Price Each		
							1	5	10
653-E32-DC200	E32-DC200	Diffuse	150mm	0.012 dia.	M6	Compact threaded head	58.30	56.91	55.13
653-E32-TC200	E32-TC200	Through-beam	200mm	0.2 dia.	M4	Compact threaded head	56.63	55.28	53.55
653-E32-T14L	E32-T14L	Through-beam	240mm	0.08 dia.	3mm head	Space-saving	113.39	104.10	99.21
653-E32-T61-S	E32-T61-S	Through-beam	400mm	0.4 dia.	M4	Heat-resistive	290.06	280.20	271.50



### Fiber-Optic Cleaning

MOUSER STOCK NO.	Supplier	Description	Size	Price Each
5168-ES810	Chemtronics	Fiber Optic Cleaner	5 oz. aerosol	16.93
5168-25125X	Chemtronics	1.25mm Fiber Optic Swab 100/Bag	100/bag	116.32
5168-QBE	Chemtronics	Fiber Optic End Face Cleaning Tool	200 wipes/box	49.62
590-8234-K	MG Chemicals	Fiber Optic Cleaning Kit	500 ml cleaner/280 wipes	15.02

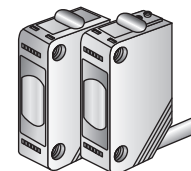
## OMRON E3Z SERIES: PHOTOELECTRIC SENSOR WITH BUILT-IN AMPLIFIER

### 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



E3Z-T61

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

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Sensing Method	Light Source	Output	Sensing Distance	Price Each		
						1	5	10
653-E3Z-G61-M3J	E3Z-G61-M3J	Through-beam	Infrared LED	NPN	25mm	114.46	106.93	103.54
* 653-E3Z-R61	E3Z-R61	Retroreflective	Red LED	NPN	100mm to 3 or 4m	108.98	99.07	90.81
* 653-E3Z-R81	E3Z-R81	Retroreflective	Red LED	PNP	100mm to 3 or 4m	116.40	105.82	97.00
653-E3Z-B86	E3Z-B86	Retroreflective	Red LED	PNP	500mm	131.24	116.10	112.42
Accessories		Description				Price Each		
653-E39-R1	E39-R1	Reflector, size 40 x 60mm				15.82	14.77	13.48
653-E39-L7	E39-L7	Mounting bracket for E39-R1 reflector				6.80	6.18	5.66
653-E39-R3	E39-R3	Reflector, size 22.5 x 38mm				30.61	29.79	28.18
653-E39-L104	E39-L104	L-bracket, horizontal mounting bracket				8.26	8.17	8.10



E3Z-R61