

# OMRON Photoelectric Sensors and Fiber Optic Amplifiers



## OMRON E3JU SERIES: GENERAL PURPOSE PHOTOELECTRIC SENSORS

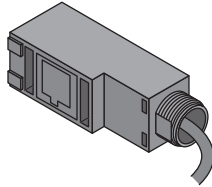
For quantities of 20 and up, call for quote.

### 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



MOUSER STOCK NO.	Omron Part No.	Type	Interface Protection	Sensing Distance	Timer	Price Each		
						1	5	10
653-E3JU-R5M4T-3	E3JU-R5M4T-3	Polarized retroreflective	Provided	5M (16.4 ft.)	Yes	218.10	189.90	181.33
653-E3JU-D1M4-3	E3JU-D1M4-3	Diffuse reflective	Provided	1M (3.3 ft.)	No	188.64	171.06	163.34
Accessories						Description		
653-E39-LU1	E39-LU1	Mounting bracket for sensor				1	5	10
653-E39-L7	E39-L7	Mounting bracket for E39-R1 reflector				5.70	5.49	5.41
653-E39-R1	E39-R1	Reflector, 100mm-6M sensing (Supplied with retroreflective type)				13.45	11.64	10.89
653-E39-R2	E39-R2	Large corner cube reflector (81 x 60 x 7mm)				19.46	18.05	16.52
653-E39-R3	E39-R3	Small corner cube reflector (38 x 22 x 11mm)				28.25	27.50	26.01
653-E39-R4	E39-R4	Small corner cube reflector (23 x 14 x 5mm)				24.83	21.02	18.67
653-E39-RSA	E39-RSA	Adhesive backed reflector (35 x 10 x 0.7mm)				8.22	8.00	7.79
653-E39-RSB	E39-RSB	Adhesive backed reflector (40 x 35 x 0.7mm)				11.35	10.63	9.95

## OMRON E3X-NH SERIES: HIGH PRECISION AUTO-TUNING FIBER-OPTIC AMPLIFIERS

### Specifications:

- Sensitivity setting: Teaching method
- Response time: 1 ms max for turn-on and turn-off
- Operation mode: Light ON, Dark ON, switch-selectable
- Supply voltage: 12-24 VDC
- Enclosure rating: IP50
- Require fiber-optic cables, sold separately below. Other cables are available upon request.

### Features:

- Employs a 16-bit processor - an industry first
- Automatic sensitivity adjustment feature allows for stable detection of objects in frequently changing environments
- Manual fine tuning allows 13 threshold adjustments
- Ideal for detecting small objects or fine wires



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### Amplifiers

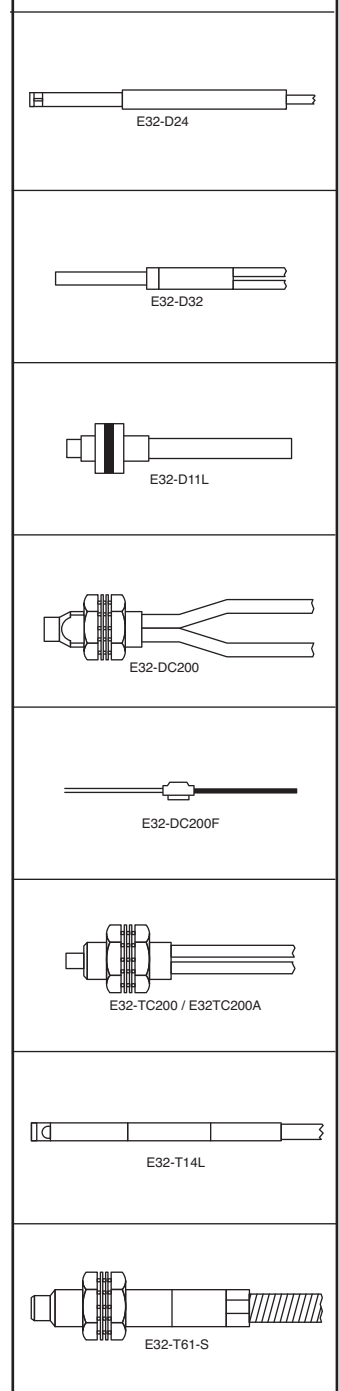
MOUSER STOCK NO.	Omron Part No.	Light Source	Output	Timing	Price Each		
					1	5	10
653-E3X-NH11	E3X-NH11	Red LED	NPN	N/A	180.85	175.73	172.39

### Fiber-Optic Cables

For quantities of 20 and up, 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-D24	E32-D24	Diffuse	15mm	0.03 dia.	2mm head	Side-sensing	108.32	104.99	102.34
653-E32-D32	E32-D32	Diffuse	18mm	0.03 dia.	2mm head	Threaded head, coaxial	73.74	71.42	70.34
653-E32-D11L	E32-D11L	Diffuse	200mm	0.012 dia.	M6	Threaded head, gen. purp.	87.51	83.72	79.58
653-E32-DC200	E32-DC200	Diffuse	75mm	0.015 dia.	M6	Compact threaded head	50.78	47.67	45.13
653-E32-DC200F	E32-DC200F	Diffuse	36mm	0.012 dia.	M3	Threaded head, probe type	135.60	122.41	117.52
653-E32-TC200	E32-TC200	Through-beam	200mm	0.2 dia.	M4	Compact threaded head	50.78	47.85	45.11
653-E32-TC200A	E32-TC200A	Through-beam	180mm	0.2 dia.	M3	Compact threaded head	52.25	50.76	48.13
653-E32-T14L	E32-T14L	Through-beam	120mm	0.1 dia.	3mm head	Space-saving	84.62	82.35	80.64

### Fiber-Optic Cables



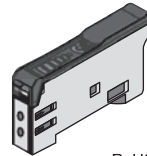
## OMRON E3X-NA SERIES: USER-FRIENDLY FIBER-OPTIC AMPLIFIERS

### 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:

- Steamlined 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

\* Timer-function models

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MOUSER STOCK NO.	Omron Part No.	Light Source	Output	Timing	Price Each		
					1	5	10
653-E3X-NA11	E3X-NA11	Red LED	NPN	N/A	171.15	149.80	140.95
653-E3X-NA41	E3X-NA41	Red LED	PNP	N/A	171.15	149.80	140.95
653-E3X-NA212M	E3X-NA212M	Red LED	NPN	0.01 - 0.1 s	190.89	183.26	171.80
653-E3X-NA512M	E3X-NA512M	Red LED	PNP	0.01 - 0.1 s	190.89	183.26	171.80

### Fiber-Optic Cables

For quantities of 20 and up, 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-D24	E32-D24	Diffuse	15mm	0.012 dia.	2mm head	Side-sensing	108.32	104.99	102.34
653-E32-D32	E32-D32	Diffuse	18mm	0.03 dia.	2mm head	Threaded head, coaxial	73.74	71.42	70.34
653-E32-DC200	E32-DC200	Diffuse	150mm	0.012 dia.	M6	Compact threaded head	50.78	47.67	45.13
653-E32-DC200E	E32-DC200E	Diffuse	36mm	0.012 dia.	M3	Thin fiber, easy to mount	66.61	64.59	62.94
653-E32-CC200	E32-CC200	Diffuse	150mm	0.012 dia.	M6	High accuracy positioning	56.33	52.17	51.89
653-E32-TC200	E32-TC200	Through-beam	200mm	0.2 dia.	M4	Compact threaded head	50.78	47.85	45.11
653-E32-TC200A	E32-TC200A	Through-beam	360mm	0.4 dia.	M3	Compact threaded head	52.25	50.76	48.13
653-E32-T14L	E32-T14L	Through-beam	240mm	0.08 dia.	3mm head	Space-saving	84.62	82.35	80.64
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
				1
5168-ES810	Chemtronics	Fiber Optic Cleaner	5 oz. aerosol	10.68
5168-25125X	Chemtronics	1.25mm Fiber Optic Swab 100/Bag	100/bag	97.99
5168-QBE	Chemtronics	Fiber Optic End Face Cleaning Tool	200 wipes/box	43.72
590-8234-K	MG Chemicals	Fiber Optic Cleaning Kit	500 ml cleaner/280 wipes	14.82