

## Photoswitches – Optical Proximity — continued

## Sensor Adjuster

OMRON



- Mounting and adjusting of photoswitches on conveyor frames and tracks
- Constructed from stainless steel and plastic
- Robust assembly resistant to corrosion
- Mounts on either horizontal or vertical surfaces

Provides easier, more secure installation and adjustment of Omron E3S-A, E3V3 and similar photoswitches. The reflector used with reflex types can also be mounted to the unit using the mounting attachment available separately.

E39-L93 fitted with E39-L96  
E39-L93 Overall H = 213 M6 mounting holes, F.C. = 32

SEN180X

	Mfrs. List No.	Order Code	1+	5+	10+
Sensor adjuster	E39-L93	<b>674-382</b>			
Mounting attachment	E39-L96	<b>674-394</b>			

Retroreflective, Diffuse, Through-beam  
E3S-C series

OMRON



- Water and oil resistant with metal housing
- Sealed to **IP67**
- Vibration resistance of 10 to 2kHz and a shock resistance of 1,000 m/s<sup>2</sup>
- NPN and PNP output selector
- Light-ON/Dark-ON selectable
- Fuzzy mutual interference prevention function
- Prewired with 2m cable

Asian Selection

New

Supply voltage	10 to 30 Vdc (ripple 10%)
Current consumption	40 mA max (retroreflective, diffuse) 50 mA max (through-beam)
Control output	Open collector, 100mA max, 30Vdc
Operating temperature	-25°C to +55°C
Response time	1 ms max except E3S-CD12 which is 2 ms max

SEN410/SI

	Mfrs. List No.	Sensing Distance	Order Code	1+	5+	10+
<b>Horizontal mounting</b>						
Diffuse	E3S-CD11 2M	70mm	<b>357-8902</b>			
Diffuse	E3S-CD12 2M	2M	<b>532-400</b>			
Retroreflective	E3S-CR11 2M	3M	<b>532-411</b>			
<b>Vertical mounting</b>						
Through-beam	E3S-CT61 2M	3M	<b>722-9343</b>			

## Diffuse, Reflex and Separate – E3S Series

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**103-362, 175-728:** H = 21, W = 15, D = 50  
**103-360:** H = 19, W = 15, D = 50  
**103-361/3/4:** H = 23, W = 20, D = 67  
Reflector H = 60, W = 40, D = 7  
Cable L = 2m

- LED indication of output and stability status
- Operation mode selectable by changing power supply polarity
- UL listed
- Diecast housed types protected to **IP67**
- Plastic housed types protected to **IP65**
- Reflector supplied with reflex type

	Sensing distance	Current consumption	Response time	Temperature range
Diffuse	100mm (plastic housed) 300mm (diecast housed)	Reflex/Diffuse 40mA Separate 50mA	1ms 3ms	-25°C to +55°C
Reflex	2m	Load current		
Separate	2m (plastic housed) 5m (diecast housed)	NPN types 80mA PNP types 100mA		
Supply voltage	12V dc -10% to 24V dc +10% (230V ac using S3 or S3D2 controller)			

Mfrs. List No.	E3S-R2E4 = 103-364, E3S-DS30E4 = 103-363, E39-R1 = 177-866.	E3S-DS10E4 = 103-362, E3S-2E4 = 103-360,	E3S-DS10B4 = 175-728, E3S-5E4 = 103-361,
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SEN80X

Housing	Output	Order Code	1+	5+	10+
<b>Diffuse Type</b>					
Plastic	NPN	<b>103-362</b>			
Plastic	PNP	<b>175-728</b>			
Diecast	NPN	<b>103-363</b>			
<b>Reflex Type</b>					
Diecast	NPN	<b>103-364</b>			

Continued

Housing	Output	Order Code	1+	5+	10+
<b>Separate Type</b>					
Plastic	NPN	<b>103-360</b>			
Diecast	NPN	<b>103-361</b>			
<b>Spare Reflector</b>					
		<b>177-866.</b>			

Diffuse, Polarised Reflex and Separate.  
Long Range, Metal Housing – E3S-C series

OMRON

Horizontal  
H = 23, W = 20.4, D = 50,  
Cable L = 2m

Vertical

- Sensing to 2m (diffuse), 3m (reflex), 30m (through-beam)
- Robust metal housing with protection to **IP67**
- Diffused and reflex types have mutual interference protection
- Light-on/dark-on operation and NPN/PNP output selectable by switches under top cover
- LED indication of output and stability status
- Supplied with stainless mounting brackets
- Reflector supplied with reflex type

Sensing distance	0 to 2m(diffuse), 0 to 3m (polarised reflex), 0 to 30m (separate)
Current consumption (max.)	40mA (diffuse, polarised reflex), 90mA (separate)
Supply voltage	10 to 30V dc
Control output	Open collector 100mA max., 30V dc max.
Response time	1ms
Temperature range	-25°C to +55°C

Mfrs. List No's.	E3S-CD12 = 532-400, E3S-CD62 = 722-9320,	E3S-CR11 = 532-411, E3S-CR61 = 722-9331,	E3S-CT11 = 532-423, E3S-CT61 = 722-9343.
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SEN151X

Type	Order Code	1+	5+	10+
<b>Horizontal Mounting</b>				
Diffuse	<b>.532-400</b>			
Polarised reflex	<b>.532-411</b>			
Separate	<b>.532-423</b>			
<b>Vertical Mounting</b>				
Diffuse	<b>722-9320</b>			
Polarised reflex	<b>722-9331</b>			
Separate	<b>722-9343</b>			

## Separate, Long Range, Metal Housing – E3N

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H = 40, W = 40, D = 94

- Through-beam sensing up to 30 metres
- Robust metal housing with protection to **IP66**
- LED indication of output and stability status
- Light-on/dark-on operation and NPN/PNP output selectable by switches under top cover
- PG 13.5 conduit entry

Sensing distance	30m	Stability output	100mA (max) approx second delay before operation
Supply voltage	12V dc -10% to 24V dc +10% (230 V ac using S3 or S3D2 controller)	Load current	200mA
Current consumption	70mA	Response time	3ms
		Temperature range	-25°C to +55°C

SEN11X

Mfrs. List No.	Order Code	1+	5+	10+
E3N-30H4S1	<b>178-470</b>			

Reflex – Transparent Object Sensors  
Metal Housing – E3S-R

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Horizontal H = 20.4, W = 23, D = 66.6  
Vertical H = 74.6, W = 20, D = 23  
Reflector H = 60, W = 40, D = 7  
Reflector and mounting bracket supplied, Cable L = 2m