

Photoswitches - Optical Proximity - continued

Subminiature - Through-beam (Slotted) - continued

EE-SPX, EE-SX Series - continued

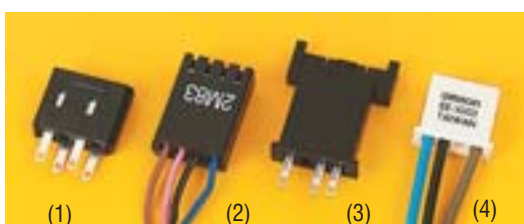
- All slotted sensors have light-on indication
- Variety of slot widths, mounting and termination styles
- Mating connectors and connecting leads available

Slot Width	Output	Load	Supply Voltage	Connector Code	Mfrs. List No.	Order Code
Modulated light, PCB mountable						
3.6mm	Light - off	80mA	12 - 24V dc	3 or 4	EE-SPX301	721-3992
3.6mm	Light - on	80mA	12 - 24V dc	3 or 4	EE-SPX401	721-4005
Dust-proof slit, 100mA switching						
5mm	Light - on/off	100mA	12 - 24V dc	1 or 2	EE-SX670	721-4017
5mm	Light - on/off	100mA	12 - 24V dc	1 or 2	EE-SX671	721-4029
5mm	Light - on/off	100mA	12 - 24V dc	1 or 2	EE-SX672	721-4030
5mm	Light - on/off	100mA	12 - 24V dc	1 or 2	EE-SX673	721-4042
Wide slot						
13mm	Light - off	80mA	12 - 24V dc	1 or 2	EE-SPX303	721-4054
13mm	Light - on	80mA	12 - 24V dc	1 or 2	EE-SPX403	721-4066
Modulated light, prewired 1m leads						
5mm	Light - off	80mA	12 - 24V dc	N/A	EE-SPX305-W2A	721-4078
5mm	Light - on	80mA	12 - 24V dc	N/A	EE-SPX405-W2A	721-4080

212306

Mfrs. List No.	Order Code	1+	5+	10+	25+	+
EE-SPX301	721-3992	2,300.00	2,203.00	2,144.00	1,845.00	--
EE-SPX401	721-4005	2,300.00	2,203.00	2,144.00	1,845.00	--
EE-SX670	721-4017	1,158.00	1,110.00	1,081.00	930.00	--
EE-SX671	721-4029	1,158.00	1,110.00	1,081.00	930.00	--
EE-SX672	721-4030	1,158.00	1,110.00	1,081.00	930.00	--
EE-SX673	721-4042	1,158.00	1,110.00	1,081.00	930.00	--
EE-SPX303	721-4054	2,690.00	2,578.00	2,508.00	2,160.00	--
EE-SPX403	721-4066	2,690.00	2,578.00	2,508.00	2,160.00	--
EE-SPX305-W2A	721-4078	4,669.00	4,512.00	4,393.00	3,853.00	--
EE-SPX405-W2A	721-4080	4,669.00	4,512.00	4,393.00	3,853.00	--

Connectors for EE Subminiature Photoswitches



Connectors and connecting leads for Omron EE subminiature photoswitches.



212307

Connector Code	Lead Length	Mfrs. List No.	Order Code	1+	10+	25+
1	—	EE-1001	721-4091	222.00	212.00	201.00
2	2 mtr	EE-1006	721-4108	1,084.00	1,029.00	976.00
3	—	EE-1002	721-4110	216.00	208.00	196.00
4	1 mtr	EE-1003	721-4121	781.00	743.00	703.00
Connector with Robot Cord		EE 1043G	357-9840	571.00	--	--
Connector for EE-SX67--/EE-SY67--		EE 1030E	357-9852	676.00	--	--

'Mini' Side-view and Flat Packages - E3T



Limited Reflective, Diffuse, Reflex, Separate



- Very small size saves installation space
- 'Pin-point' beam (1-2mm) ideal for detecting minute sensing objects
- Minimal influence of background or ambient shiny metal objects
- Limited reflective model ensures precise detection of black sensing objects
- Reflector supplied with reflex types (23x13.7mm)

Power supply: 12 to 24V dc ± 10% (ripple 10% max.)
 Control output: NPN or PNP open collector, load current: 50mA max. at 24V dc
 Operation mode: Limited reflective, diffuse = light-ON; Reflex, separate = dark-ON
 Response time: 1ms max. for both operation and release
 Operating temperature: -25°C to +55°C
 Enclosure rating: IP67

Package	Side-view	Flat pack	Separate
H	20.6	20.8	14.6
W	7	12	7
D	11.2	3.7	9.5

Mfrs. List No.	E3T-SL11 = 721-3748,	E3T-SL13 = 722-6421,	E39-R4 = 722-6482.
	E3T-SR22 = 721-3773,	E3T-SR24 = 722-6457,	E3T-SL21 = 721-3750,

E3T-FT12 = 721-3785,	E3T-FD11 = 721-3761,	E3T-FD13 = 722-6445,
E3T-SL23 = 722-6433,	E3T-ST12 = 721-3797,	E3T-ST14 = 722-6470,
E3T-FT14 = 722-6469,		

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Sensing Distance	Style	Output	Order Code	1+	5+	10+
Limited Reflective						
5 to 15mm	Side-view	NPN	721-3748	6,014.00	5,657.00	5,360.00
5 to 15mm	Side-view	PNP	722-6421	6,014.00	5,657.00	5,360.00
5 to 30mm	Side-view	NPN	721-3750	6,014.00	5,657.00	5,360.00
5 to 30mm	Side-view	PNP	722-6433	6,014.00	5,657.00	5,360.00
Diffuse						
5 to 30mm	FLAT	NPN	721-3761	6,320.00	5,945.00	5,631.00
5 to 30mm	FLAT	PNP	722-6445	6,320.00	5,945.00	5,631.00
Reflex						
10 to 200mm	Side-view	NPN	721-3773	7,033.00	6,617.00	6,268.00
10 to 200mm	Side-view	PNP	722-6457	7,033.00	6,617.00	6,268.00
Separate						
500mm	FLAT	NPN	721-3785	8,358.00	7,863.00	7,448.00
500mm	FLAT	PNP	722-6469	8,358.00	7,863.00	7,448.00
1m	Side-view	NPN	721-3797	8,358.00	7,863.00	7,448.00
1m	Side-view	PNP	722-6470	8,358.00	7,863.00	7,448.00
Spare reflector			722-6482	1,420.00	1,349.00	1,279.00

Diffuse, Polarised Reflex, Separate - E3S-A Series



Cable: Reflex: H=22.3, W=12.4, D=42.3
 Screw Connector, Diffuse: H=22.3, W=12.4, D=50

- LED indication for output and stability status
- Light-on/dark-on operation is switch selectable
- Small variation in sensitivity between sensors allows quick adjustment of multiple sensors
- Close alignment of optical axis to mounting position (2° max.) permits quick alignment
- Plastic housing protected to IP67
- Connection by 2m lead or M12 screw connector
- Reflector supplied with reflex types

Sensing distance	Diffuse	Polarised reflex	Separate
Diffuse	0 to 200mm	0.1 to 2m	0 to 7m
Current consumption	Diffuse	Polarised reflex	Separate
	30mA	30mA	40mA
Supply voltage	10 to 30V dc	Control output (max.)	100mA, 30V dc max.
Temperature range	-25°C to +55°C	Response time	0.5ms

Mfrs. List No.	E3S-AR11 = 532-459,	E3S-AT11 = 532-472,	E3S-AD11 = 532-435,
	E3S-AD31 = 532-447,	E3S-AD36 = 532-502,	E3S-AT31 = 532-484,
	E3S-AR31 = 532-460,		

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Type	Output	Order Code	1+	5+	10+
2 Metre Lead					
Diffuse	NPN	532-435	7,261.00	6,830.00	6,470.00
Diffuse	PNP	532-447	7,261.00	6,830.00	6,470.00
Polarised reflex	NPN	532-459	7,753.00	7,292.00	6,908.00
Polarised reflex	PNP	532-460	7,753.00	7,292.00	7,340.00
Separate	NPN	532-472	9,480.00	8,917.00	8,448.00
Separate	PNP	532-484	9,480.00	8,917.00	8,448.00
M12 Screw Connector					
Diffuse	PNP	532-502	8,486.00	7,982.00	7,563.00

Fibre Optic Photoswitches

High Speed - E3X-A, E3X-F, E3X-NVG Series



H=30, W=12, L=59, Cable L=2m

- High resolution and easy setting by means of 8-turn sensitivity adjuster and indicator
- Flashing light shows if light axis is misaligned at the sensor head
- LED indicators show operation and stability status
- Quick lead termination using lock button
- ABS housing with polycarbonate cover, sealing to IP66
- E3X-A types ensure high speed response of 200µs, ideal for a wide variety of applications
- E3X-F types have pulse lighting mechanism enabling very high speed response of 20µs
- E3X-F types ideal for high speed positioning and detection of minute objects
- Adjustable off-delay timer, alarm and external check functions on E3X-F types
- E3X-NVG colour mark sensor ideal for food and packaging industries
- Teaching function on E3X-NVG colour mark sensor is possible with or without object