

Photoswitches – Optical Proximity — continued

Diffuse, Polarised Reflex and Separate – E3JM Series



- SPCO relay output
- LED alignment indication
- Light-on/dark-on operation is switch selectable
- Connections via screw terminals under screw-down cover
- PG13.5 conduit entry
- Protection to IP66
- Polarised reflex types give reliable detection of shiny objects
- All types available with multi-function adjustable timer



H = 65, W = 25, D = 75

Note: Mounting bracket 179-874 allows these E3JM Series photoswitches to fit the same bracket mounting holes as obsolete E3A Series and OA5N photoswitches.

	Diffuse	Reflex	Separate
Sensing distance	700mm	4m	10m
Supply voltage	20 to 240V ac, 50/60Hz ± 10% or 12-240V dc ± 10%		
Power consumption	2W (max)	2W (max)	3W (max)
Output	SPDT 3A 230V ac (max), 5V dc 10mA (min)		
Sensitivity	Adjustable	Fixed	Fixed
Timer version	One-shot or on-delay or off-delay adjustable 0.1 to 5s		

Mfrs. List No.'s. E3JM-DS70M4G = 178-472, E3JM-R4M4G = 178-473, E3JM-R4M4TG = 178-474, E3JM-10M4G = 178-475, E39-R1 = 177-866, E39-L51 = 179-874, E3JM-10M4TG = 722-9288, E3JM-DS70M4TG = 722-9276.

SEN88X

Type	Order Code	Price Each		
		1+	5+	10+
Diffuse	.178-472			
Diffuse with timer	.722-9276			
Polarised reflex	.178-473			
Polarised reflex with timer	.178-474			
Separate	.178-475			
Separate with timer	.722-9288			
Spare reflector	.177-866.			
Adaptor bracket (for E3A Mtg)	.179-874			

Diffuse, Polarised Reflex and Separate E3Z series



- Sealed to IP67
- LED indication for operation and stability status
- Prewired with 2m cable



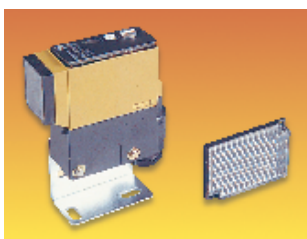
10.8(W)x20(D)x31(H)

Supply voltage	12 to 24 Vdc ± 10% including 10% (p-p) max ripple		
Control output	Open collector output, load current 100mA max at 26.4 V max		
Operating temperature	-25°C to +55°C		
Response time	1 ms max		
Output	NPN		
Order Code	357-4611	357-4623	357-4635
Sensing distance	100mm	1M	3M
Current Consumption	30mA	30mA	30mA

SEN408/SI

	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Diffuse	E3Z-D61 2M	.357-4611			
Diffuse	E3Z-D62 2M	.357-4623			
Retroreflective	E3Z-R61 2M	.357-4635			
Through-bean	E3Z-T61 2M	.357-4647			
Reflector for Retroreflective	E39-R1	.177-866			
Mounting brackets	E39-L104	.721-3876			

Polarised Reflex – E3A2 Series



- Reliable detection of shiny objects
- Available with adjustable ON or OFF delay timer function
- LED indication of operation and stability status
- UL listed
- Choice of spare reflectors



Photoswitch:
H = 75, W = 26, D = 75 (reflector supplied)
Reflectors: 177-866: H = 60, W = 40, D = 7,
177-867: H = 65, W = 45, D = 10

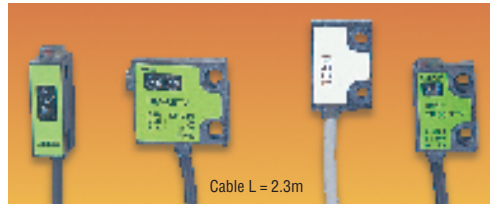
Sensing distance	3m
Supply voltage	12 to 240V dc or 24 to 240V ac
Power consumption	1.5W
Output	SPCO relay 3A @ 240V ac instantaneous or SPCO relay 3A @ 240V ac 0.1 to 30s delayed
Response time	30ms max
Temperature Range	-10°C to +55°C

Mfrs. List No.'s. E3A2-R3M4-GN1 = 176-347, E3A2-R3M4D-GN1 = 176-348

SEN90X

Type	Order Code	Price Each		
		1+	5+	10+
Polarised reflex	.176-347			
Polarised reflex with timer	.176-348			
Spare reflector	.177-866.			
Alternative reflector	.177-867			

Convergent Beam, Diffuse and Separate UM Series



279-626 H = 20, W = 7, D = 9 279-638 H = 18, W = 19.5, D = 3.5 279-640 H = 18, W = 12.5, D = 3.5

- Red operation and green stability LED indicators
- Sensitivity adjustment by potentiometer built into the lead 300mm from the photo-switch
- Short circuit protected ● Sealed to IP64 ● Integral cable, length 2.3 metres

Ultra-miniature SEEKA-TAKEX® photoswitches utilising SMD technology to produce devices that are totally self-contained.

Convergent beam type: Ideal for detecting objects over a short range where the background needs to remain undetected.

Diffuse type: Less sensitive but longer range.

Separate through-beam system: Will detect products with a 3mm diameter over a 0.5m range.

Sensing distance			Current consumption		
Convergent beam	2 to 30mm		Convergent beam, diffuse	27mA	
Diffuse	2 to 50mm		Separate	37mA	
Separate	0 to 500mm		Output	NPN open collector 80mA (30V dc)	
Supply Voltage			Response time	0.5ms (max)	
Convergent beam, diffuse	12V to 24V dc		Temperature range	-25°C to +55°C	
Separate	24 V dc				

SEN115

Type	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Convergent beam	UM-Z35V	.279-626			
Diffuse	UM-R5TV	.279-638			
Separate	UM-T50DTV	.279-640			

M18 Diffused and Polarised Reflex – CX Prewired and M8 Plug-In



L = 55 (body), Cable L = 2m

- Industrial standard M18 body
- Flat, easy-clean lens
- Easy mounting
- Housing sealed to IP66
- LED indication
- Short circuit protection
- Plug-in connector types available
- Adjustable range types available

Range of high-performance, industrial standard, M18 barrel photosensors with the option of M8 connector and adjustable sensitivity for maximum flexibility.

Function	Diffuse	Diffuse Adjustable	Polarised Retro-reflective
Sensing distance	100mm	300mm	2m
Current consumption	NPN = 17mA, PNP = 23mA	NPN = 20mA, PNP = 26mA	NPN = 18mA, PNP = 24mA
Operating mode	Light on	Light on	Dark on
Light source wavelength	Infra-red LED 950nm	Infra-red LED 950nm	Red LED 700nm
Power supply	12 to 24V dc ±10%	12 to 24V dc ±10%	12 to 24V dc ±10%
Output	100mA max., 30V dc	100mA max., 30V dc	100mA max., 30V dc
Response time	0.35ms max.	0.35ms max.	0.35ms max.
Temperature range	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C