

Photoswitches – Optical Proximity — continued

M18 – Metal Housing



- Diffuse and polarised models
- M18 barrel sizes
- NPN or PNP (NO/NC selectable)
- DECOUT (NPN/PNP-NO/NC selectable)
- Metal housing
- Pre-cabled or plug-in
- 3 Year Guarantee

Supply voltage 10-30V dc Wiring 3 wire – NPN/PNP
 Switching frequency 50kHz 4 wire – DECOUT
 Protection IP67 Sensing distance Diffuse – 100mm
 Load current 100mA Diffuse – 400mm
 Operating temp. -25°C to +70°C Polar reflex – 3m

SEN382

Style	Sensing Distance (mm)	Mftrs. List No.	Order Code	1+	5+	10+
M12 Plug-In						
PNP – Diffuse	100	SS2/OP-1H	311-1120			
NPN – Diffuse	100	SS2/ON-1H	311-1131			
PNP – Diffuse	400	SS6/OP-1H	311-1143			
NPN – Diffuse	400	SS6/ON-1H	311-1155			
NPN – Polarised	3000	SSP/OP-1H	311-1167			
NPN – Polarised	3000	SSP/ON-1H	311-1179			
2m Pre-Cabled						
PNP – Diffuse	100	SS2/OP-1A	311-1180			
NPN – Diffuse	100	SS2/ON-1A	311-1192			
PNP – Diffuse	400	SS6/OP-1A	311-1209			
NPN – Diffuse	400	SS6/ON-1A	311-1210			
NPN – Polarised	3000	SSP/OP-1A	311-1222			
NPN – Polarised	3000	SSP/ON-1A	311-1234			
PNP – DECOUT	400	MV6/00-1A	311-1258			
NPN – DECOUT	3000	MSP/00-1A	311-1260			

M18 Diffuse and Reflex – E3F2 Series



- Light-on/dark-on operation is wire selectable (dc types)
- Short-circuit and reverse connection protection (dc types)
- AC type is UL and CSA approved
- IP66 sealing ● LED output indication
- Potentiometer sensitivity adjustment on long range (300mm) diffuse sensors
- Reflector supplied with reflex types

ac type: M18 80, dc types: M18 65
 Reflector supplied with reflex type

A range of compact cylindrical photoswitches in M18 ABS resin housings.

Sensing distance	Output	Response time
Diffuse 100	ac type 5-200mA	
Diffuse adjustable 0-300 (400 typ.)	dc types 100mA max, NPN or PNP	
Reflex 2m (2.5m typ.)		
Temperature range -25°C to +55°C	ac type 30ms max.	dc types 2.5ms max.

Mftrs. List No.	E3F2-DS10C4N = 478-556, E3F2-DS30C4 = 280-768, E3F2-R2B4 = 280-793,	E3F2-DS10B4N = 478-568, E3F2-DS30B4 = 280-770, E3F2-R2B4 = 280-793.	E3F2-DS10Z1 = 170-927, E3F2-R2C4 = 280-781,
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SEN72X

Sensing Distance	Voltage	Output	Order Code	1+	5+	10+
Diffuse						
100mm	12 to 30V dc	NPN	.478-556			
100mm	12 to 30V dc	PNP	.478-568			
300mm	12 to 30V dc	NPN	.280-768			
300mm	12 to 30V dc	PNP	.280-770			
100mm	22 to 264V ac	SCR	170-927			
Reflex						
2m	12 to 30V dc	NPN	280-781			
2m	12 to 30V dc	PNP	280-793			
Spare Reflector			177-866			

M18 Diffuse – M12 Plug-In – E3F2-DS10-P1 Series



- Short circuit protection
- IP66 protection
- Operate mode can be changed through output polarity reversal
- LED indication of output status
- Plug into 3-core M12 sensor connectors

Thread = M18, L = 72

Sensing distance 100mm Response time 2.5ms max
 Output 100mA max Operating voltage 12 to 24V dc ± 10%
 Output mode Normally open or Normally closed Temperature range -25°C to +55°C

Mftrs. List No. E3F2-DS10C4-P1 = 176-775, E3F2-DS10B4-P1 = 176-776

SEN73X

Output	Order Code	1+	5+	10+
NPN	176-775			
PNP	176-776			

Controllers -E3C Series



Asian Selection

New



- Mutual interference preventive function allows side-by-side mounting of two sensors
- Light indicator provided in the sensing head

Order Code	Sensing Distance	Operating Temperature	Enclosure Rating
170-918	Thru-beam 10cm	-25°C~+70°C	IP64
357-8483	Thru-beam 50cm	-25°C~+70°C	IP64
357-8495	Thru-beam 30cm	-25°C~+70°C	IP60
357-8501	Thru-beam 30cm	-25°C~+70°C	IP60
357-8513	Thru-beam 1m	-25°C~+70°C	IP66
170-920	Retroreflective 3±0.5cm	-10°C~+70°C	IP64
357-8537	Retroreflective 3.5±0.5cm	-10°C~+70°C	IP64

Amplifier units: Mounting is by surface/din track with socket (except E3C-JC4P, which is Din track)

Order Code	Power Supply Voltage	Current Consumption	Response Time	Enclosure Rating	Timer Function
357-8549	100-240 Vac	3W max	½ms max selectable	IP40	No
357-8550	100-240 Vac	3W max	½ms max selectable	IP40	Yes
179-254	12-24 Vac	50 mA max	½ms max selectable	IP40	No
532-370	12-24 Vac	50 mA max	½ms max selectable	IP50	Yes
357-8586	12-24 Vac	50 mA max	½ms max selectable	IP50	Yes

SEN409/SI

Mftrs. List No.	Order Code	1+	5+	10+
Sensors				
E3C-S10 2M	170-918			
E3C-S50 2M	357-8483			
E3C-S30T 2M	357-8495			
E3C-S30W 2M	357-8501			
E3C-1 2M	357-8513			
E3C-VS3R 2M	170-920			
E3C-VM35R 2M	357-8537			
Amplifier Unit				
E3C-A AC100-240	357-8549			
E3C-C AC100-240	357-8550			
E3C-GE4	179-254			
E3C-JC4P 2M	532-370			
E3C-JB4P 2M	357-8586			

Major International Brands

All the leading brand names from over 1,000 major international manufacturers.