DATASHEET - E75-PP1MP-M12

Proximity Sensor, HxWxD=50x18x50mm, Sn=6-120cm, 10-30VDC, PNP, M12

Part no. E75-PP1MP-M12
166997

General specifications

Product name	Eaton Moeller® series E75 Proximity sensor
Part no.	E75-PP1MP-M12
EAN	4015081642984
Product Length/Depth	1286.2 millimetre
Product height	88.9 millimetre
Product width	119.38 millimetre
Product weight	0.43 kilogram
Certifications	CSA File No.: UL report applies to both US and Canada Certified by UL for use in Canada CE UL Category Control No.: NRKH, NRKH7 UL UL File No.: E166051 CSA-C22.2 No. 14 UL 508 IEC/EN 60947-5-2
Product Tradename	E75
Product Type	Proximity sensor
Product Sub Type	None

Product Specification Details

Adjustment type	Manual adjustment
Ambient operating temperature - max	55 °C
Ambient operating temperature - min	-25 °C
Ambient storage temperature - max	70 °C
Ambient storage temperature - min	-25 °C
Cable sheath material	Other
Connection type	Plug-in connection M12 x 1 4-wire
Degree of protection	NEMA 6 IP67
Diameter sensor	0 mm
Electric connection type	Plug-in connection
Enclosure material	Plastic
Enclosure type	Cuboid
Explosion safety category for dust	None
Explosion safety category for gas	None
Fitted with:	Background suppression (Perfect Prox)
Functions	Short-circuit protection Reflected-light beam
Interface type	Other
Laser protection class	None
LED indicator	Status indication of Operating voltage: Green LED Status indication of Switching state: Yellow LED
Light dot size	0 mm^2
Light type	Infrared light
Load current	Max. 100 mA (Ie)
Number of contact energized outputs with signalling function	0
Number of outputs (protected contact energized)	0
Number of outputs (protected semiconductor)	0
Number of outputs (semiconductor with signaling function)	1
Operating distance - max	1200 mm
Operating distance - min	60 mm

Operating mode		Switching principle: Adjustable bright/dark switching
Operating temperature - max		55 °C
Operating temperature - min		-25 °C
Operation agent-safety class		Safety class 2
Optical surface material		Plastic
Output current (mA) - max		100 mA
Output current at protected output - max		0 mA
Product category		E75 IntelliView Series
Rated control supply voltage (Us) at AC, 50 Hz - max		0 V
Rated control supply voltage (Us) at AC, 50 Hz - min		0 V
Rated control supply voltage (Us) at AC, 60 Hz - max		0 V
Rated control supply voltage (Us) at AC, 60 Hz - min		0 V
Rated control supply voltage (Us) at DC - max		30 V
Rated control supply voltage (Us) at DC - min		10 V
Rated switching distance (Sn)		1200 mm
Reflector distance - min		0 mm
Response time		1 ms
Safety type (IEC 61496-1)		1
Sensing mode		Light-/dark switching
Sensor height		50 mm
Sensor length		50 mm
Shock resistance		30 g, Mechanical, Shock duration 11 ms
Switch function type		Other
Switching distance - max		1200 mm
Switching frequency		500 Hz
Switching output type		PNP
Switching voltage of OSSD at state "high"		30 V
Transmission range of the safety field		0 m
Type		Optical sensors
Vibration resistance		According to IEC/EN 60068-2-6 10 - 55 Hz, Amplitude 0.5 mm
Voltage rating - max		30 V
Voltage type		DC
Wavelength of the sensor		880 nm
Width sensor		18 mm
Wire size		0

Technical data ETIM 9.0

Sensors (EG000026) / Diffuse reflective photoelectric sensor (EC001821)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner (ecl@ss13-27-27-09-03 [AKP252018])

Operating distance	mm	60 - 1200
Pre failure notice		No
With time function		No
Max. switching distance	mm	1200
Max. output current	mA	100
With reflector		No
Analogue output 0 V ... 10 V		No
Analogue output 0 mA ... 20 mA		No
Analogue output 4 mA ... 20 mA		No
Analogue output -10 V ... +10 V		No
With other analogue output		No
Setting procedure		Manual adjustment
With communication interface analogue		No
With communication interface AS-Interface		No
With communication interface CANOpen		No

With communication interface DeviceNet		No
With communication interface Ethernet		No
With communication interface INTERBUS		No
With communication interface PROFIBUS		No
With communication interface RS-232		No
With communication interface RS-422		No
With communication interface RS-485		No
With communication interface SSD		No
With communication interface SSI		No
Number of semiconductor outputs with signalling function		1
Number of contact energized outputs with signalling function		0
Number of protected semiconductor outputs		0
Number of protected contact energized outputs		0
Type of interface for safety communication		Other
Type of electric connection		Plug-in connection
Type of switching output		PNP
Type of switch function		Other
Operation agent-safety class		Safety class 2
Explosion safety category for gas		None
Explosion safety category for dust		None
Construction type housing		Cuboid
Width sensor	mm	18
Diameter sensor	mm	0
Height of sensor	mm	50
Length of sensor	mm	50
Sensing mode		Light-/dark switching
Material of optical surface		Plastic
Housing material		Plastic
Max. output current at protected output	mA	0
Min. reflector distance	mm	0
Response time	ms	1
Transmission range of the safety field	m	0
Switching frequency	Hz	500
Type of safety according to IEC 61496-1		1
Switching voltage of OSSD at state "high"	V	30
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	880
Type of light		Infrared light
Light dot	mm^2	0
AWG-number		0
Material of cable sheath		Other
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		6
Ambient temperature	°C	-25 - 55
Rated control supply voltage AC 50 Hz	V	0 - 0
Rated control supply voltage AC 60 Hz	V	0 - 0
Rated control supply voltage DC	V	10 - 30

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