DATASHEET - E75-PPA050P-M12

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

Part no. E75-PPA050P-M12
166924

General specifications

Product name	Eaton Moeller® series E75 Proximity sensor
Part no.	E75-PPA050P-M12
EAN	4015081643011
Product Length/Depth	795.53 millimetre
Product height	81.28 millimetre
Product width	81.28 millimetre
Product weight	0.45 kilogram
Certifications	Certified by UL for use in Canada CE UL File No.: E166051 UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 IEC/EN 60947-5-2 UL 508 UL CSA File No.: UL report applies to both US and Canada
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	4-wire Plug-in connection M12 x 1
Degree of protection	NEMA 6 IP65
Diameter sensor	0 mm
Electric connection type	Connector M12
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	Reflected-light beam Short-circuit protection
Interface type	Other
Laser protection class	None
LED indicator	Status indication of Switching state: Red LED Status indication of Operating voltage: Green 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	500 mm
Operating distance - min	100 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)			500 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			500 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			10 - 55 Hz, Amplitude 0.5 mm According to IEC/EN 60068-2-6
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	100 - 500
Pre failure notice			No
With time function			No
Max. switching distance		mm	500
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		Connector M12
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)		IP65
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

© 04/2023 by Eaton Industries GmbH