



**Proximity Sensor, HxWxD=50x18x50mm, Sn=12-110cm, 10-30VDC, PNP, M12**

**Part no.** E75-PPA110P-M12  
**Article no.** 166925  
**Catalog No.** E75-PPA110P-M12

## Delivery program

Basic function			Optical sensors
Product range			E75 IntelliView Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	Rectangular (50 x 50 x 18)
Rated operational voltage	$U_e$		10 - 30 V DC
Rated switching distance	$S_n$	mm	1100
Description			Fore-/background suppression (Perfect Prox)
Connection			4-wire
Function			Reflected-light beam
Type of light			Infra-red
Switching type			PNP
Switching principle			Adjustable bright/dark switching
<b>Information relevant for export to North America</b>			
Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking			
UL File No. E166051			
UL Category Control No. NRKH, NRKH7			
CSA File No. UL report applies to both Canada and US			
North America Certification UL listed, certified by UL for use in Canada			
Max. Voltage Rating 30 V DC			
Degree of Protection IEC: IP65; UL/CSA Type: -			

## Technical data

### General

Standards			IEC/EN 60947-5-2
Ambient temperature			-25 - +55
Operation	$\theta$	°C	-25 - +55
Storage	$\theta$	°C	-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP65
Vibration			Amplitude 0.5 mm: 10 - 55 Hz. IEC/EN 60068-2-6

### Characteristics

Rated switching distance			
Rated switching distance	$S_n$	mm	1100
Rated operational voltage	$U_e$		10 - 30 V DC
Maximum load current	$I_e$	mA	< 100
Switching Frequency		Hz	500
Switching state display		LED	Red
Operating voltage display		LED	Green
Protective functions			Short-circuit protective device
Connection			4-wire
Style			
Design (outer dimensions)		mm	Rectangular (50 x 50 x 18)
For connection of:			Plug-in connection M12 x 1

## Design verification as per IEC/EN 61439

Technical data for design verification			
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Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	55

## Technical data ETIM 6.0

Sensors (EG000026) / Light scanner, energetic (EC001821)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner, energetic (ec1@ss8.1-27-27-09-03 [AKP252010])

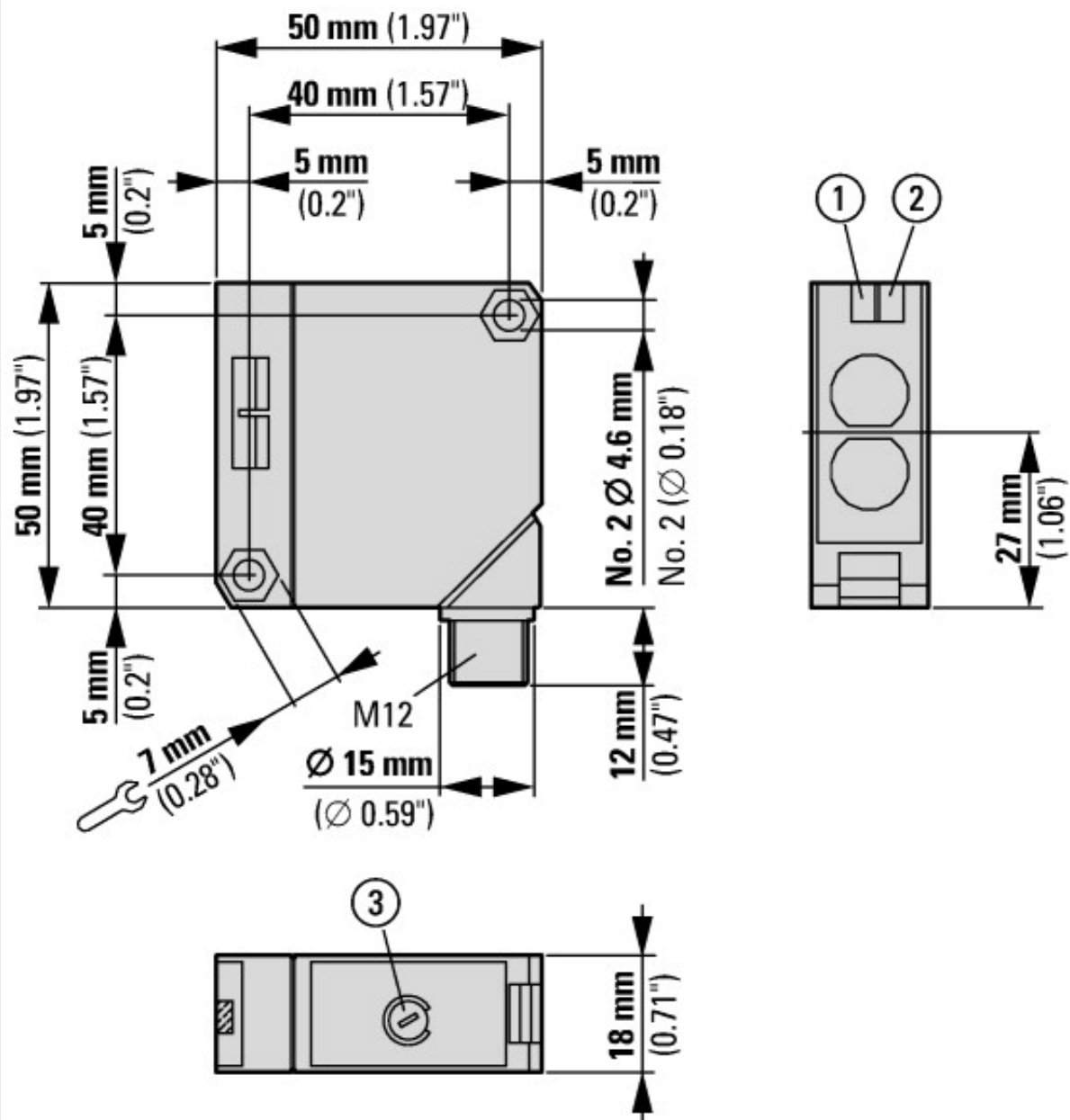
Operating distance	mm	120 - 1100
Pre failure notice		No
With time function		No
Max. switching distance	mm	1100
Max. output current	mA	100
Reflector included		No
Analogue output 0 V ... 10 V		No
Analogue output 0 mA ... 20 mA		No
Analogue output 4 mA ... 20 mA		No
Analogue output -10 V ... +10 V		No
With other analog output		No
Setting procedure		-
With communication interface analog		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		-
Type of electric connection		Connector M12
Type of switching output		PNP
Type of switch function		Programmable/configurable
Operation agent-safety class		-
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
Switch function		-
Material of optical surface		Plastic
Material housing		Plastic
Max. output current at protected output	mA	0
Min. reflector distance	mm	0
Time of reaction	ms	1
Transmission range of the safety field	m	0
Switching frequency	Hz	500
Type of safety acc. IEC 61496-1		-

Switching voltage of OSSD at state "high"	V	30
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		-
Wavelength of the sensor	nm	880
Type of light		Infrared light
Light dot	mm <sup>2</sup>	0
AWG-number		0
Material of cable sheath		-
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP65
Ambient temperature	°C	-25 - 55
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	10 - 30

## Approvals

Product Standards		UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.		E166051
UL Category Control No.		NRKH, NRKH7
CSA File No.		UL report applies to both Canada and US
North America Certification		UL listed, certified by UL for use in Canada
Max. Voltage Rating		30 V DC
Degree of Protection		IEC: IP65; UL/CSA Type: -

## Dimensions



- ① Output LED
- ② Stability LED
- ③ Adjustment Pot

## Additional product information (links)

### IL05305007Z IntelliView Optical Sensors with adjustable Background rejection

IL05305007Z IntelliView Optical Sensors with adjustable Background rejection [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05305007Z2016\\_07.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305007Z2016_07.pdf)