

# Eaton 100528

Catalog Number: 100528

Eaton Moeller® series E71 Proximity switch, optical, long range  
35cm, 4L, 10-30VDC, NPN, M8



### General specifications

Product Name	Catalog Number
Eaton Moeller® series E71 Proximity switch	100528
	EAN
	4015081643349
Product Length/Depth	Product Height
471.83 mm	9.91 mm
Product Width	Product Weight
9.91 mm	0.09 kg

### Certifications

CE  
UL 508  
UL  
IEC/EN 60947-5-2  
CSA File No.: UL report applies to both  
US and Canada  
CSA-C22.2 No. 14  
UL File No.: E166051  
Certified by UL for use in Canada  
UL Category Control No.: NRKH, NRKH7

## Product specifications

### Type

Optical sensors

### Features

Straight beam

### Electric connection type

Connector M8

### Enclosure material

Plastic

### Enclosure type

Cuboid

### Operating mode

Switching principle: Adjustable bright/dark switching

### Explosion safety category for dust

None

### Explosion safety category for gas

None

### Functions

Protection against polarity reversal

Short-circuit protection

Reflected-light beam

### Voltage type

DC

### Wire size

0

### Connection type

Plug-in connection M8 x 1

4-wire

### Cable sheath material

Other

### Light type

Infrared light

### Degree of protection

NEMA 4

IP66

### Interface type

Other

## Resources

### Brochures

[eaton-sensors-brochure-br053001en-en-us.pdf](#)

### Catalogs

[Product Range Catalog Sensors – products, basic information, applications](#)

### Drawings

[eaton-proximity-switches-proximity-switch-dimensions-024.eps](#)

[eaton-proximity-switches-e71-proximity-switch-3d-drawing.eps](#)

### Installation instructions

[IL05305006Z](#)

### mCAD model

[DA-CS-90\\_28292\\_002](#)

[DA-CD-90\\_28292\\_002](#)

#### LED indicator

Status indication of Operating voltage: Green LED

Status indication of Switching state: Yellow LED

#### Switch function type

Other

#### Load current

Max. 100 mA (I<sub>e</sub>)

#### Laser protection class

None

#### Operation agent-safety class

Safety class 2

#### Shock resistance

30 g, Mechanical, Shock duration 11 ms

#### Optical surface material

Plastic

#### Output current (mA) - max

100 mA

#### Output current at protected output - max

0 mA

#### Rated control supply voltage (U<sub>s</sub>) at AC, 50 Hz - max

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 50 Hz - min

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - max

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - min

0 V

#### Rated control supply voltage (U<sub>s</sub>) at DC - max

30 V

#### Rated control supply voltage (U<sub>s</sub>) at DC - min

10 V

#### Rated switching distance (S<sub>n</sub>)

350 mm

#### Reflector distance - min

0 mm

#### Sensor height

0 mm

#### Sensor length

20 mm

#### Switching distance - max

350 mm

#### Switching voltage of OSSD at state high

30 V

#### Transmission range of the safety field

0 m

#### Voltage rating - max

30 V

#### Safety type (IEC 61496-1)

1

#### Switching frequency

500 Hz

#### Sensing mode

Light-/dark switching

#### Switching output type

NPN

#### Sensor material

Insulated material

#### Vibration resistance

According to IEC/EN 60068-2-6

10 - 55 Hz, Amplitude 0.5 mm

#### Wavelength of the sensor

880 nm

#### Width sensor

12 mm

#### Product category

E71 NanoView Series

#### Response time

1 ms

#### Ambient operating temperature - max

55 °C

#### Ambient operating temperature - min

-25 °C

#### Ambient storage temperature - max

70 °C

Ambient storage temperature - min

-25 °C

Diameter sensor

0 mm

Light dot size

0 mm²

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

350 mm

Operating distance - min

0 mm

Operating temperature - max

55 °C

Operating temperature - min

-25 °C

Adjustment type

Manual adjustment