

# Eaton 100523

Catalog Number: 100523

Eaton Moeller® series E71 Proximity switch, optical, long range  
2.5m, 4L, 10-30VDC, NPN cable

General specifications



| Product Name                               | Catalog Number |
|--------------------------------------------|----------------|
| Eaton Moeller® series E71 Proximity switch | 100523         |
|                                            | EAN            |
|                                            | 4015081643301  |
| Product Length/Depth                       | Product Height |
| 471.83 mm                                  | 18.03 mm       |
| Product Width                              | Product Weight |
| 15.24 mm                                   | 0.24 kg        |

Certifications

CSA File No.: UL report applies to both  
US and Canada  
Certified by UL for use in Canada  
UL Category Control No.: NRKH, NRKH7

UL File No.: E166051  
CSA-C22.2 No. 14  
UL  
CE  
IEC/EN 60947-5-2  
UL 508

## Product specifications

### Type

Optical sensors

### Features

Polarized light

### Electric connection type

Cable

### 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

### Connection type

2 m connection cable

4-wire

### Light type

Polarized red light

### Degree of protection

IP66

NEMA Other

### Interface type

Other

### LED indicator

Status indication of Switching state: Yellow LED

Status indication of Operating voltage: Green LED

### Switch function type

## 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-023.eps](#)

[eaton-proximity-switches-e71-proximity-switch-3d-drawing-002.eps](#)

### Installation instructions

[IL05305006Z](#)

### mCAD model

[DA-CD-90\\_28292\\_001](#)

[DA-CS-90\\_28292\\_001](#)

Other

Load current

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

Laser protection class

None

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>)

2500 mm

Reflector distance - min

0 mm

Sensor height

32 mm

Sensor length

20 mm

Switching distance - max

2500 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

10 - 55 Hz, Amplitude 0.5 mm

According to IEC/EN 60068-2-6

Wavelength of the sensor

660 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 mm<sup>2</sup>

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 temperature - max

55 °C

Operating temperature - min

-25 °C

Adjustment type

Other



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