

Eaton 100539

Catalog Number: 100539

Eaton Moeller® series E67 Proximity switch, optical, long range 60cm, 18-30VDC, NPN, PNP, dark, micro

General specifications



Product Name	Catalog Number
Eaton Moeller® series E67 Proximity switch	100539
	EAN
	4015081900121
Product Length/Depth	Product Height
160 mm	57 mm
Product Width	Product Weight
42 mm	0.21 kg
Certifications	
CE	

Product specifications

Type

Optical sensors

Electric connection type

Other

Fitted with:

Background suppression (Perfect Prox)

Enclosure material

Plastic

Enclosure type

Cuboid

Operating mode

Switching principle: Dark switching

Explosion safety category for dust

None

Explosion safety category for gas

None

Functions

Reflected-light beam

Voltage type

DC

Wire size

0

Connection type

Plug-in connection M12 x 1

4-wire

Cable sheath material

Other

Light type

Infrared light

Degree of protection

IP67

NEMA Other

Interface type

Other

LED indicator

Status indication of Operating voltage: Green LED

Resources

Brochures

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

Catalogs

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

Declarations of conformity

[DA-DC-00004657.pdf](#)

[DA-DC-00004652.pdf](#)

Drawings

[eaton-proximity-switches-e67-proximity-switch-dimensions.eps](#)

[eaton-proximity-switches-e67-proximity-switch-3d-drawing.eps](#)

Installation instructions

[IL05305005Z](#)

mCAD model

[DA-CS-90_28291_001](#)

[DA-CD-90_28291_001](#)

Status indication of Switching state: Red LED

Switch function type

Other

Load current

Max. 100 mA (I_e)

Laser protection class

None

Operation agent-safety class

Safety class 2

Shock resistance

30 g, Mechanical, Shock duration 6 ms

Optical surface material

Plastic

Output current (mA) - max

100 mA

Output current at protected output - max

0 mA

Rated control supply voltage (U_s) at AC, 50 Hz - max

0 V

Rated control supply voltage (U_s) at AC, 50 Hz - min

0 V

Rated control supply voltage (U_s) at AC, 60 Hz - max

0 V

Rated control supply voltage (U_s) at AC, 60 Hz - min

0 V

Rated control supply voltage (U_s) at DC - max

30 V

Rated control supply voltage (U_s) at DC - min

18 V

Rated switching distance (S_n)

600 mm

Reflector distance - min

0 mm

Sensor height

59 mm

Sensor length

166 mm

Switching distance - max

900 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

0 Hz

Sensing mode

Dark switching

Switching output type

PNP/NPN

Vibration resistance

10 Hz - 2 kHz, 10 g

Triangulation

Background fade-out

Wavelength of the sensor

0 nm

Width sensor

43 mm

Product category

E67 Long Range Series

Response time

15 ms

Adjustment range - max

600 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

55 °C

Ambient operating temperature - min

-35 °C

Ambient storage temperature - max

70 °C

Ambient storage temperature - min

-40 °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)

2

Operating distance - max

0 mm

Operating distance - min

0 mm

Operating temperature - max

55 °C

Operating temperature - min

-35 °C

Adjustment type

Other