Specifications

Eaton 100518



Catalog Number: 100518

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

General specifications

Product Name
Eaton Moeller® series E71 Proximity switch

Catalog Number
100518

EAN
4015081643271

Product Length/Depth
536.45 mm

Product Height
9.91 mm

Product Width
9.91 mm

Product Weight
0.09 kg

Certifications
UL 508
UL
UL Category Control No.: NRKH, NRKH7

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

Powering Business Worldwide

Product specifications

Type

Optical sensors

Features

Focused, forward viewing 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

Polarity free red light
Visible red light

Degree of protection

IP67
NEMA 4

Interface 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-024.eps

eaton-proximity-switches-proximity-switch-3d-drawing-002.eps

Installation instructions

IL05305006Z

mCAD model

DA-CS-90_28292_004

DA-CD-90_28292_004

Other

LED indicator

Status indication of Switching state: Yellow LED

Status indication of Operating voltage: Green LED

Switch function type

Other

Load current

Max. 100 mA (Ie)

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 (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)

100 mm

Reflector distance - min

0 mm

Sensor height

32 mm

Sensor length

20 mm

Switching distance - max

100 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

PNP

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 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

100 mm

Operating distance - min

0 mm

Operating temperature - max

55 °C

Operating temperature - min

-25 °C

Adjustment type

Manual adjustment

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Eaton.com/socialmedia