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Specifications

Eaton 100426



Catalog Number: 100426

Eaton Moeller® series E71 Proximity switch, optical, long range 80cm, 4L, 10-30VDC, NPN, M8

General specifications

Product Name
Eaton Moeller® series E71 Proximity switch

Catalog Number
100426

EAN
4015081643226

Product Length/Depth
502.31 mm

Product Height
9.91 mm

Product Width
9.91 mm

Product Weight
0.09 kg

Certifications
IEC/EN 60947-5-2
UL File No.: E166051
UL
UL Category Control No.: NRKH, NRKH7

CSA File No.: UL report applies to both US and Canada
CE
Certified by UL for use in Canada
CSA-C22.2 No. 14
UL 508

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Product specifications

Type
Optical sensors

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
Short-circuit protection
For combination with reflector
Detection of transparent objects
Protection against polarity reversal
Reflected-light beam

Voltage type
DC

Connection type
4-wire
Plug-in connection M8 x 1

Light type
Polarity free red light

Degree of protection
IP66
NEMA Other

Interface type
Other

LED indicator
Status indication of Operating voltage: Green LED
Status indication of Switching state: Yellow LED

Switch function 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-002.eps

Installation instructions
IL05305006Z

mCAD model
DA-CD-90_28292_002

DA-CS-90_28292_002

Load current

Max. 100 mA (Ie)

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 (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)

800 mm

Reflector distance - min

0 mm

Sensor height

32 mm

Sensor length

20 mm

Switching distance - max

800 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 mm²

Number of contact energized outputs with signalling function

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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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