Specifications

Eaton 136235

Catalog Number: 136235

Eaton Moeller® series E56 Proximity switch, inductive, 1N/O+1N/C, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12
E56ADL40UAD01



General specifications

Product Name
Eaton E56 pancake inductive proximity sensor

Catalog Number
136235

EAN
4015081330287

Product Length/Depth
101.6 mm

Product Height
38.1 mm

Product Width
114.3 mm

Product Weight
0.45 kg

Certifications
CE
Certified by UL for use in Canada
CSA-C22.2 No. 14
UL 508
UL File No.: E166051
UL
UL Category Control No.: NRKH, NRKH7

CSA File No.: UL report applies to both US and Canada
IEC/EN 60947-5-2

Powering Business Worldwide

Product specifications

Type

Inductive sensor

Electric connection type

Plug-in connection

Enclosure material finishing

Other

Surface finishing

PPS

Actuation type

Metallic Target

Enclosure material

Plastic

Enclosure type

Cuboid

Category (EN 954-1)

B

Explosion safety category for dust

None

Explosion safety category for gas

None

Safety performance level (EN ISO 13849-1)

None

SIL (IEC 61508)

None

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Diameter sensor

0 mm

Number of contact energized outputs with signalling function

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

Resources

Declarations of conformity

DA-DC-00004654.pdf

DA-DC-00004649.pdf

Drawings

eaton-proximity-switches-inductive-sensor-e56-proximity-switch-dimensions.eps

eaton-proximity-switches-e56-proximity-switch-3d-drawing-002.eps

Installation instructions

IL05301008Z

1

Number of outputs (protected contact energized)

0

Number of outputs (protected semiconductor)

0

Number of outputs (semiconductor with signaling function)

1

Operational current (Ib) in the switched state at 24 V DC

25 A

Output current at protected output - max

0 mA

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

0 V

Functions

Protection against polarity reversal

Short-circuit protection

Voltage type

DC

Mounting method

Non-flush mounting

Material

Insulated material

Connection type

Plug-in connection M12 x 1

4-wire

Installation type

Not flat

Degree of protection

IP67

NEMA 4X, 6, 13

Interface type

None

LED indicator

Status indication of Operating voltage: Green LED

Status indication of Switching state: Red LED

Switch function type

Anticoincidence

Load current

1 - 300 mA (Ie)

Residual current

0.15 mA (through the load in the blocked state at 230 V AC and 24 V DC)

Switching frequency

100 Hz

Voltage rating - max

48 V

Width sensor

79 mm

Product category

E56 Pancake Series

Switching output type

NPN

Temperature drift of sn

10 %

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

48 V

Rated control supply voltage (Us) at DC - min

6 V

Rated switching distance (Sn) - max

40 mm

Repeatability

2 %

Sensor height

39 mm

Sensor length

79 mm

Supply voltage - max

48 V

Supply voltage - min

6 V

Switching hysteresis of Sn

15 %

Voltage drop (Ud)

2.5 V

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