Specifications

Eaton 136234

Catalog Number: 136234

Eaton Moeller® series E56 Proximity switch, inductive, 1N/O+1N/C, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12
E56ADL40SAD01



General specifications

Product Name
Eaton E56 pancake inductive proximity sensor

Catalog Number
136234

EAN
4015081330270

Product Length/Depth
41.28 mm

Product Height
79.38 mm

Product Width
44.45 mm

Product Weight
0.27 kg

Certifications

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

IEC/EN 60947-5-2
UL 508
UL
CE
CSA File No.: UL report applies to both US and Canada
UL File No.: E166051

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Product specifications

Type
Inductive sensor

Electric connection type
Connector M12

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

Short-circuit protection

Protection against polarity reversal

Voltage type

DC

Mounting method

Flush mounting

Material

Insulated material

Connection type

Plug-in connection M12 x 1

4-wire

Installation type

Concise

Degree of protection

IP67

NEMA 4X, 6, 13

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Status indication of Operating voltage: Green 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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