Specifications

Eaton 135807

Catalog Number: 135807

Eaton Moeller® series E52 Proximity switch, inductive, 1N/O+1N/C, Sn=20mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material E52Q-DL20UAD01



General specifications

Product Name
Eaton E52 inductive proximity sensor

Catalog Number
135807

EAN
4015081326006

Product Length/Depth
41.28 mm

Product Height
79.38 mm

Product Width
44.45 mm

Product Weight
0.27 kg

Certifications
CE
Certified by UL for use in Canada
UL 508
UL
IEC/EN 60947-5-2
UL Category Control No.: NRKH, NRKH7

CSA-C22.2 No. 14
CSA File No.: UL report applies to both US and Canada
UL File No.: E166051

Catalog Notes
Housing adapter

Powering Business Worldwide

Product specifications

Type

Inductive sensor

Electric connection type

Connector M12

Enclosure material finishing

Other

Surface finishing

Zinc alloy

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

-40 °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-e52-proximity-switch-dimensions.eps

Installation instructions

IL05301007Z

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 wire breakage
Short-circuit protection
Protection against polarity reversal

Voltage type

DC

Mounting method

Non-flush mounting

Material

Zinc (Insulated)

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

Max. 300 mA (Ie)

Residual current

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

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Switching frequency

100 Hz

Voltage rating - max

48 V

Width sensor

40 mm

Product category

E52 Cube 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

20 mm

Repeatability

2 %

Sensor height

40 mm

Sensor length

40 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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