Specifications

# Eaton 135809

## Catalog Number: 135809

Eaton Moeller® series E52 Proximity switch, inductive, 1N/O+1N/C, Sn=30mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material



### General specifications

**Product Name**
Eaton E52 inductive proximity sensor

**Catalog Number**
135809

**EAN**
4015081326020

**Product Length/Depth**
41.28 mm

**Product Height**
79.38 mm

**Product Width**
44.45 mm

**Product Weight**
0.27 kg

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

CSA File No.: UL report applies to both US and Canada
Certified by UL for use in Canada
IEC/EN 60947-5-2
CE
UL File No.: E166051
CSA-C22.2 No. 14
UL 508
UL

**Catalog Notes**
Housing adapter

Powering Business Worldwide

## Product specifications

Type

Inductive sensor

Electric connection type

Plug-in connection

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-00004649.pdf

DA-DC-00004654.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 polarity reversal
Protection against wire breakage
Short-circuit protection

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

30 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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