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Specifications

Eaton 135883



Catalog Number: 135883

Eaton Moeller® series E57 Proximity switch, E57 Global Series, 1 N/O, 2-wire, 10 - 30 V DC, M12 x 1 mm, Sn= 2 mm, Flush, NPN/PNP, Metal, 2 m connection cable

General specifications

Product Name
Eaton Moeller® series E57 Proximity switch

Catalog Number
135883

EAN
4015081326761

Product Length/Depth
165.1 mm

Product Height
12.7 mm

Product Width
139.7 mm

Product Weight
0.16 kg

Certifications
CE
CSA File No.: 224447
CSA
UL 508
CSA-C22.2 No. 14
IEC/EN 60947-5-2
UL File No.: CSA report applies to both US and Canada
CSA Class No.: 4652-04 / 4652-84

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Product specifications

Type

Inductive sensor

Voltage rating

10-30 Vdc

Electric connection type

Cable

Enclosure material finishing

Other

Actuation type

Metallic Target

Enclosure material

Metal

Enclosure type

Cylinder, screw-thread

Contact configuration

1 NO

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

12 mm

Number of contact energized outputs with signalling function

0

Number of contacts (normally open contacts)

Resources

Brochures

eaton-sensors-brochure-br053001en-en-us.pdf

Catalogs

Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity

DA-DC-00004656.pdf

DA-DC-00004651.pdf

Drawings

eaton-proximity-switches-proximity-switch-dimensions-025.eps

131I090

eCAD model

DA-CE-ETN.E57-12GS02-D

Installation instructions

IL05301002Z

Multimedia

We make what matters

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

10 A

Output current at protected output - max

0 mA

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

0 V

Voltage type

DC

Mounting method

Flush mounting

Material

Metal

Connection type

2 m connection cable

2-wire

Installation type

Concise

Degree of protection

IP69

IP67

NEMA Other

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Normally open contact

Load current

3 - 100 mA (Ie)

Residual current

0.8 mA (through the load in the blocked state at 230 V AC and

24 V DC)

Residual ripple

10 % (U_e)

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Switching frequency

2000 Hz

Voltage rating - max

30 V

Width sensor

0 mm

Product category

E57 Global Series

Switching output type

PNP/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

30 V

Rated control supply voltage (Us) at DC - min

10 V

Rated switching distance (Sn) - max

2 mm

Repeatability

2 %

Sensor height

0 mm

Sensor length

50 mm

Supply voltage - max

30 V

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Supply voltage - min

10 V

Switching hysteresis of Sn

15 %

Voltage drop (Ud)

6 V

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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