Specifications

Eaton 135956



Catalog Number: 135956

Eaton Moeller® series E57 Proximity switch, E57 Premium+ Series, 1 N/O, 3-wire, 6 - 48 V DC, M18 x 1 mm, Sn= 20 mm, Semi-shielded, NPN, Stainless steel, Plug-in connection M12 x 1

General specifications

Product Name
Eaton Moeller® series E57 Proximity switch

Catalog Number
135956

EAN
4015081327492

Product Length/Depth
152.4 mm

Product Height
50.8 mm

Product Width
127 mm

Product Weight
0.45 kg

Certifications
IEC/EN 60947-5-2
CSA Class No.: none
None
CSA File No.: none

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Product specifications

Type
Inductive sensor

Electric connection type
Connector M12

Enclosure material finishing
Other

Actuation type
Metallic Target

Enclosure material
Metal

Enclosure type
Cylinder, screw-thread

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
18 mm

Number of contact energized outputs with signalling function
0

Number of contacts (normally open contacts)
1

Number of outputs (protected contact energized)
0

Number of outputs (protected semiconductor)

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-e57-proximity-switch-dimensions-002.eps

eaton-proximity-switches-e57-proximity-switch-3d-drawing-003.eps

eCAD model
DA-CE-ETN.E57-18LE20-CD

Installation instructions
IL05301003Z

Multimedia
We make what matters

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

Semi-shielded mounting

Material

Stainless steel

Connection type

Plug-in connection M12 x 1

3-wire

Installation type

Not flat

Degree of protection

IP67

NEMA 4X, 6, 13

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Normally open contact

Load current

Max. 500 mA (Ie, at 6 - 30 V DC)

Residual current

0.1 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

500 Hz

Voltage rating - max

48 V

Width sensor

0 mm

Product category

E57 Premium+ 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

3 %

Sensor height

0 mm

Sensor length

86.1 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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