Specifications

Eaton 136109



Catalog Number: 136109

Eaton Moeller® series E57 Proximity switch, E57 Premium+ Short-Series, 1 N/O, 2-wire, 40 - 250 V AC, 20 - 250 V DC, M18 x 1 mm, Sn= 5 mm, Flush, NPN/PNP, Stainless steel, Plug-in connection M12 x 1

General specifications

Product Name
Eaton Moeller® series E57 Proximity switch

Catalog Number
136109

EAN
4015081329021

Product Length/Depth
154.94 mm

Product Height
50.8 mm

Product Width
127 mm

Product Weight
0.23 kg

Certifications
CE
IEC/EN 60947-5-2
UL
CSA Class No.: 3211-03
UL Category Control No.: NRKH, NRKH7

CSA-C22.2 No. 14
CSA
UL 508
CSA File No.: 50513
UL File No.: E166051

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Product specifications

Type
Inductive sensor

Electric connection type
Plug-in connection

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

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-3d-drawing-003.eps

Installation instructions
IL05301003Z

Multimedia
We make what matters

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

250 V

Voltage type

AC

Mounting method

Flush mounting

Material

Stainless steel

Connection type

2-wire

Plug-in connection M12 x 1

Installation type

Concise

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

1 - 200 mA (Ie, 70 °C)

1 - 250 mA (Ie, at 25 °C)

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

20 Hz

Voltage rating - max

250 V

Width sensor

0 mm

Product category

E57 Premium+ Short-Series

Switching output type

PNP/NPN

Temperature drift of sn

10 %

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

20 V

Rated control supply voltage (Us) at AC, 60 Hz - max

250 V

Rated control supply voltage (Us) at AC, 60 Hz - min

20 V

Rated control supply voltage (Us) at DC - max

0 V

Rated control supply voltage (Us) at DC - min

0 V

Rated switching distance (Sn) - max

5 mm

Repeatability

3 %

Sensor height

0 mm

Sensor length

40 mm

Supply voltage - max

250 V

Supply voltage - min

20 V

Switching hysteresis of Sn

20 %

Voltage drop (Ud)

2.5 V

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

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