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Specifications

Eaton 134785



Catalog Number: 134785

Eaton Moeller® series E53 Proximity switch, capacitive, Sn=35mm, 1N/O, 3L, NPN, 10-30VDC, M34, insulated material, M12

General specifications

Product Name
Eaton Moeller® series E53 Proximity switch

Catalog Number
134785

EAN
4015081316373

Product Length/Depth
101.6 mm

Product Height
25.4 mm

Product Width
114.3 mm

Product Weight
0.23 kg

Certifications
CE
IEC/EN 60947-5-2

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Product specifications

Type
Capacitive sensor

Electric connection type
Plug-in connection

Enclosure material finishing
Other

Fitted with:
Status indication

Actuation type
Other

Enclosure material
Plastic

Enclosure type
Cylinder plain

Category (EN 954-1)
B

Explosion safety category for dust
None

Explosion safety category for gas
None

Functions
Short-circuit protection
Protection against polarity reversal
Protection against wire breakage

Voltage type
DC

Mounting method
Non-flush mounting

Material
Insulated material

Connection type
Plug-in connection M12 x 1
3-wire

Installation type
Not flat

Degree of protection

Resources

Catalogs
Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity
DA-DC-00004653.pdf

DA-DC-00004648.pdf

Drawings
eaton-proximity-switches-e53-proximity-switch-dimensions-003.eps

eaton-proximity-switches-e53-proximity-switch-dimensions-004.eps

eaton-proximity-switches-e53-proximity-switch-dimensions-002.eps

Installation instructions
IL05307002Z

IP65

NEMA 12

NEMA 13

NEMA 4

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Normally open contact

Load current

Max. 300 mA (Ie)

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)

35 mm

Repeatability

10 %

Sensor height

0 mm

Sensor length

80 mm

Supply voltage - max

30 V

Supply voltage - min

10 V

Switching hysteresis of Sn

20 %

Voltage drop (Ud)

2 V

Voltage rating - max

250 V

Width sensor

0 mm

Product category

E53 Capacitive Series

Operational current (Ib)

< 10 mA (in the switched state at 24 V DC)

Residual current

0.1 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

250 Hz

Switching output type

NPN

Temperature drift of sn

10 %

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

34 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)

0

Number of outputs (semiconductor with signaling function)

1

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Output current at protected output - max

0 mA

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

0 V

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

0 V

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

0 V

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