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Specifications

Eaton 134816



Catalog Number: 134816

Eaton Moeller® series E53 Proximity switch, capacitive, Sn=35mm, 1 N/C, 2L, 20-250VAC, M34, insulated material, M12

General specifications

Product Name
Eaton Moeller® series E53 Proximity switch

Catalog Number
134816

EAN
4015081316687

Product Length/Depth
152.4 mm

Product Height
38.1 mm

Product Width
76.2 mm

Product Weight
0.27 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

Voltage type
AC

Mounting method
Non-flush mounting

Material
Insulated material

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

Installation type
Not flat

Degree of protection
NEMA 4
IP65
NEMA 12
NEMA 13

Resources

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

Declarations of conformity
DA-DC-00004648.pdf

DA-DC-00004653.pdf

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

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

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

eaton-proximity-switches-e53-proximity-switch-3d-drawing.eps

Installation instructions
IL05307002Z

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Breaker contact

Load current

5 - 300 mA (Ie)

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)

35 mm

Repeatability

10 %

Sensor height

0 mm

Sensor length

80 mm

Supply voltage - max

250 V

Supply voltage - min

20 V

Switching hysteresis of Sn

20 %

Voltage drop (Ud)

9 V

Voltage rating - max

250 V

Width sensor

0 mm

Product category

E53 Capacitive Series

Operational current (Ib)

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< 2.5 mA (in the switched state at 24 V DC)

Rated short-time withstand current

5 A (10 ms, 5 Hz)

Residual current

2.5 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

Supply frequency

50 Hz, Input, min. Range

60 Hz, Input, max. Range

Switching frequency

15 Hz

Switching output type

Two-wire

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 closed contacts)

1

Number of outputs (protected contact energized)

0

Number of outputs (protected semiconductor)

0

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Number of outputs (semiconductor with signaling function)

1

Output current at protected output - max

0 mA

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

250 V

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

20 V

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

250 V

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