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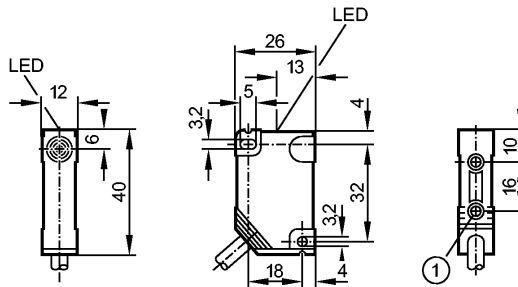
**efectorio**

IN504A



IN-3004-BPKG/10M/3D

Inductive sensors



1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.



Product characteristics

Inductive sensor

Rectangular, plastics

Cable

ATEX approval

Group II, category 3D

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

15 (24 V)

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

250

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

1300

Monitoring range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-20...60

Protection

IP 67

Tests / approvals

Marking of the unit

Ex II 3D Ex tD A22 IP67 T80°C X

EMC

EN 60947-5-2

MTTF

[Years]

1925

Mechanical data

# IN504A - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.481
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	PVC cable / 10 m; 3 x 0.5 mm <sup>2</sup>

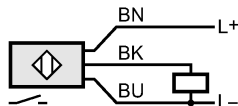
## Wiring

Core colors

BN brown

BU blue

BK black



Remarks

Pack quantity [piece]	1
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