



Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

Increased sensing range

Optical setting aid (2 LED)

Sensing range 15 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP/NPN

Operating voltage [V]

10...36 DC; cULus - Class 2 source required

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open / closed programmable

Voltage drop [V]

< 4.6

Minimum load current [mA]

4

Leakage current [mA]

< 1

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

15

Operating distance [mm]

0...12.1

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

Hysteresis [% of Sr]

1...20

Environment

Ambient temperature [°C]

-25...70

Protection

IP 68; "Coolant"

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
 EN 61000-4-3 HF radiated: 10 V/m
 EN 61000-4-4 Burst: 2 kV
 EN 61000-4-5 Surge: 0.5 kV
 EN 61000-4-6 HF conducted: 10 V
 EN 55011: class B

MTTF [Years]

1110

Mechanical data

Mounting

flush mountable

Housing materials

brass white bronze coated; active face: PBT orange

Weight [kg]

0.141

II5827 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red

Electrical connection

Connection	M12 connector; gold-plated contacts
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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