

Made in Germany

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Full metal housing

Increased sensing range

gold-plated contacts

ATEX approval

Group II, category 3D/3G

Sensing range 3 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 20

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally closed

Voltage drop [V]

< 2.5

Leakage current [mA]

< 0.1

Current rating [mA]

100

Short-circuit protection

Yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

3

Operating distance [mm]

0...2.4

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.1

Hysteresis [% of Sr]

1...20

Environment

Pressure rating [bar]

100; *)

Ambient temperature [°C]

-40...60

Protection

IP 67; when used outside hazardous areas: IP 65, IP 67, IP 68, IP 69K

Tests / approvals

Marking of the unit

Ex II 3G Ex nA IIC T6 Gc X

Ex II 3D Ex tc IIIC T85°C Dc IP67 X

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
EN 61000-4-3 HF radiated: 10 V/m (80...2000 MHz)
EN 61000-4-4 Burst: 2 kV
EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)
EN 55011 (Emission): class B

MTTF [Years]

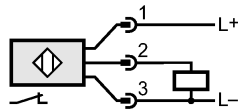
1633

IF504A - Inductive sensor - eclass: 27270101 / 27-01-01-01

Mechanical data

Mounting	flush mountable
Housing materials	stainless steel (304S15); stainless steel 316L / 1.4404; PEI; lock nuts: stainless steel
Weight [kg]	0.051
Displays / operating elements	
Output status indication LED	yellow (4 x 90°)
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Accessories

Accessories (included)	2 lock nuts
Remarks	
Remarks	*) sensing face
Pack quantity [piece]	1