



Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

Increased sensing range

Optical setting aid (2 LED)

Sensing range 22 mm; [nf] non-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]

22

Real sensing range (Sr) [mm]

22 ± 10 %

Operating distance [mm]

0...17.6

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

Switch-point drift [% of Sr]

-10...10

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]

1143

Mechanical data

Mounting

non-flush mountable

**II5829 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

Housing materials	brass white bronze coated; active face: PBT orange	
Weight [kg]	0.131	
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red
Electrical connection		
Connection	M12 connector; gold-plated contacts	

**Wiring**



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