

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

gold-plated contacts

Sensing range 22 mm; [nf] non-flush mountable

Electrical data

Electrical design

AS-i

Operating voltage [V]

26.5...31.6 DC (AS-i)

Current consumption [mA]

< 30

Protection class

III

Reverse polarity protection

yes

Outputs

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

22

Real sensing range (Sr) [mm]

22 ± 10 %

Operating distance [mm]

0...17.82

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.46 / copper approx. 0.35

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Reaction times

Power-on delay time [ms]

< 1000

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 61000-4-6 HF conducted: 10 V  
 EN 55011: class B

MTTF [Years]

1390

AS-i classification

AS-i version

2.1

Extended addressing mode possible

yes

AS-i profile

S-0.A.F

I/O configuration [hex]

0

ID code [Hex]

A.F

AS-i certificate

57501

Data bits

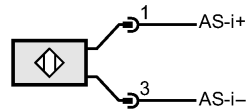
Data bit	D0	D1	D2	D3

**IIC221 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

Designation	switching signal	not used	not used	not used
State = 0	Medium outside the active zone -	-	-	
State = 1	Medium within the active zone	default value	default value	default value

Mechanical data	
Mounting	non-flush mountable
Housing materials	stainless steel (316L); active face: LCP uncolored
Weight [kg]	0.115
Displays / operating elements	
Output status indication LED	yellow (4 x 90°)
Function display LED	red
Electrical connection	
Connection	M12 connector; gold-plated contacts

**Wiring**



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