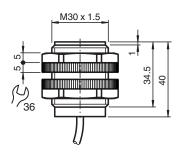
Inductive sensor

NJ5-30GK-S1N-15M



- Nonferrous targets
- 5 mm flush in ST37 / 1.0037
- Usable up to SIL 3 acc. to IEC 61508
- ATEX approval Ex-i and Ex-nA/tc for zone 0-2 and zone 20-22
- Degree of protection IP68

Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NAMUR with safety function
Rated operating distance	Sn	5 mm
Installation		flush in mild steel
Assured operating distance	Sa	0 4.05 mm
Reduction factor r _{AI}		1
Reduction factor r _{Cu}		1
Reduction factor r ₃₀₄		0
Safety Integrity Level (SIL)		up to SIL3 acc. to IEC 61508 Danger! In safety-related applications the sensor must be operated with a qualified fail safe interface from Pepperl+Fuchs, such as KFD2-SH- EX1. Consider the "exida Functional Safety Assessment" document which is available on www.pepperl-fuchs.com as an integral part of this product's documentation.
Output type		2-wire
Nominal ratings		
Nominal voltage	Uo	8.2 V
Switching frequency	f	0 150 Hz

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

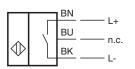
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Technical Data	
Current consumption	
Measuring plate not detected	≤ 1 mA
Measuring plate detected	≥ 3 mA
Functional safety related parameters	
Safety Integrity Level (SIL)	SIL 3
MTTFd	11850 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
EAC conformity	TR CU 012/2011
UL approval	cULus Listed, General Purpose
Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0454
CCC approval	CCC approval / marking not required for products rated \leq 36 V
Ambient conditions	
Ambient temperature	-25 100 °C (-13 212 °F)
Mechanical specifications	
Connection type	cable silicone , 15 m
Core cross-section	0.75 mm ²
Housing material	Crastin (PBT), black
Sensing face	Crastin (PBT), black
Degree of protection	IP68
Cable	
Cable diameter	6.8 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Note	only for non-ferrous metal
General information	
Use in the hazardous area	see instruction manuals

Connection



Accessories

BF 30

Mounting flange, 30 mm

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".



Application



Danger!

In safety-related applications the sensor must be operated with a qualified fail safe interface from Pepperl+Fuchs, such as KFD2-SH-EX1.

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

