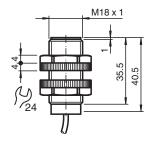
Inductive sensor

NJ3-18GK-S1N-10M

- Nonferrous targets
- 3 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

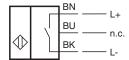


Technical Data

	Normally open (NO)
	NAMUR with safety function
Sn	3 mm
	flush in mild steel
Sa	0 2.4 mm
S _r	2.7 3.3 mm typ.
	1
	1
	0
	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.
	2-wire
U_{\circ}	8.2 V
	S _a S _r

Technical Data		
Switching frequency	f	0 200 Hz
Current consumption		
Measuring plate not detected		≤ 1 mA
Measuring plate detected		≥ 3 mA
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 3
MTTF _d		10660 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 ≤36 V
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		
Connection type		cable silicone , 10 m
Core cross-section		$0.75~\mathrm{mm}^2$
Housing material		Crastin (PBT), black
Sensing face		Crastin (PBT), black
Degree of protection		IP68
Cable		
Cable diameter		$6.8 \text{ mm} \pm 0.2 \text{ mm}$
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 18

Mounting flange, 18 mm

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.

Consider the "exida Functional Safety Assessment" document which is available on www.pepperl-fuchs.com as an integral part of this product's documentation.