Inductive sensor

NJ15-30GK-SN

- 15 mm non-flush
- 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







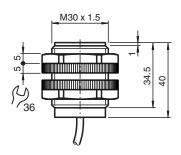








Dimensions

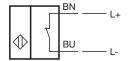


Technical Data

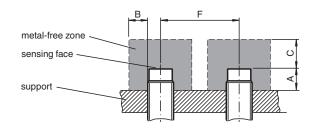
General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR with safety function
Rated operating distance	s _n	15 mm
Installation		non-flush
Assured operating distance	Sa	0 12.15 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.85
Safety 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		
Installation conditions		
A		18 mm
В		30 mm

Technical Data С 45 mm F 90 mm Nominal voltage Uo 8.2 V (R_i approx. 1 $k\Omega$) 0 ... 100 Hz Switching frequency Current consumption Measuring plate not detected ≥ 3 mA Measuring plate detected ≤ 1 mA Functional safety related parameters SIL 3 Safety Integrity Level (SIL) 11850 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Compliance with standards and directives Standard conformity **NAMUR** EN 60947-5-6:2000 IEC 60947-5-6:1999 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 IECEx approval IECEx PTB 11.0092X Equipment protection level Ga Equipment protection level Gb IECEx PTB 11.0092X Equipment protection level Da IECEx PTB 11.0092X IECEx PTB 11.0092X Equipment protection level Mb ATEX approval Equipment protection level Ga PTB 00 ATEX 2049 X Equipment protection level Gb PTB 00 ATEX 2049 X PF13CERT2895 X Equipment protection level Gc (ic) Equipment protection level Gc (nA) PF15CERT3754X Equipment protection level Da PTB 00 ATEX 2049 X Equipment protection level Dc (tc) PF15CERT3774X EAC conformity TR CU 012/2011 FM approval Control drawing 116-0165 **UL** approval cULus Listed, General Purpose **Ordinary Location** E87056 Hazardous Location E501628 Control drawing 116-0454 CCC approval Hazardous Location 2020322315002308 NEPSI approval NEPSI certificate GYJ16.1392X **Ambient conditions** Ambient temperature -40 ... 100 °C (-40 ... 212 °F) **Mechanical specifications** cable silicone, 2 m Connection type 0.75 mm² Core cross-section Housing material Crastin (PBT), black Sensing face Crastin (PBT), black IP68 Degree of protection Cable 6 mm ± 0.2 mm Cable diameter

Connection



Installation



Accessories



BF 30

Mounting flange, 30 mm

Application

Danger!

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