



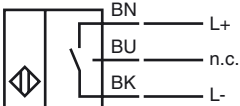
Model Number

NJ5-30GK-S1N-Y37296

Features

- 5 mm flush in ST37 / 1.0037

Connection



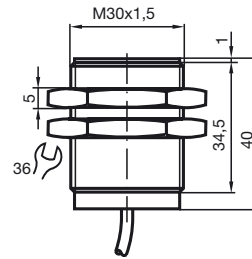
Application



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.

Dimensions



Technical Data

General specifications

Switching element function	NAMUR, NO
Rated operating distance	s_n 5 mm
Installation	flush in mild steel
Output polarity	Safety Function
Assured operating distance	s_a 0 ... 4.05 mm
Reduction factor r_{Al}	1
Reduction factor r_{Cu}	1
Reduction factor r_{304}	0

Nominal ratings

Nominal voltage	U_o 8 V
Switching frequency	f 0 ... 150 Hz
Current consumption	
Measuring plate not detected	≤ 1 mA
Measuring plate detected	≥ 3 mA

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
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Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.5 mm ²
Housing material	PP
Sensing face	PP
Protection degree	IP68
Note	only for non-ferrous metal

General information

Use in the hazardous area	see instruction manuals
Category	2G

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

ATEX 2G

Instruction

Device category 2G

Directive conformity

Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance C_i Effective internal inductance L_i

General

Highest permissible ambient temperature

Installation, Commissioning

Maintenance

Specific conditions**Manual electrical apparatus for hazardous areas**

for use in hazardous areas with gas, vapour and mist


94/9/EG

EN 60079-0:2009, EN 60079-11:2007

Ignition protection "Intrinsic safety"

Use is restricted to the following stated conditions

 0102

 II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2049 X

NJ 5-30GK-S1N...

≤ 100 nF ; a cable length of 10 m is considered.

≤ 200 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.