

0102

Model Number

NJ10-30GKK-N

Features

- **10 mm flush**
- **Usable up to SIL 2 acc. to IEC 61508**

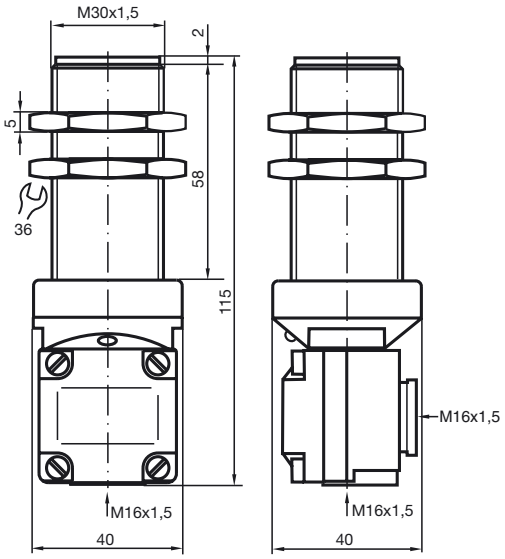
Accessories

BF 30
Mounting flange, 30 mm

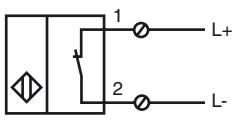
Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	10 mm
Installation		flush
Assured operating distance	s_a	0 ... 8.1 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.85
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8.2 V (R_i approx. 1 kΩ)
Switching frequency	f	0 ... 300 Hz
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA
Functional safety related parameters		
$MTTF_d$		4560 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Mechanical specifications		
Connection type		terminal compartment
Core cross-section		up to 2.5 mm^2
Housing material		PBT
Sensing face		PBT
Degree of protection		IP66 / IP67
General information		
Use in the hazardous area		see instruction manuals
Category		2G
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
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
CCC approval		CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



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Equipment protection level Gb		
CE marking		CE 0102
Effective internal inductivity	C_i	≤ 140 nF ; a cable length of 10 m is considered.
Effective internal inductance	L_i	≤ 100 µH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature	T_{amb}	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate.
Equipment protection level Da		
CE marking		CE 0102
Effective internal inductivity	C_i	≤ 140 µF A cable length of 10 m is considered.
Effective internal inductance	L_i	≤ 100 µH A cable length of 10 m is considered.

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