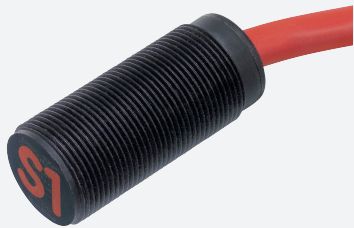


Inductive sensor

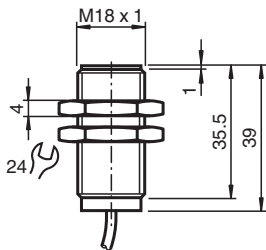
NJ5-18GK-SN-10M-Y70103518



- 5 mm flush
- 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	5 mm
Installation		flush
Assured operating distance	s _a	0 ... 4.05 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
Switching frequency	f	0 ... 500 Hz
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA

Release date: 2020-05-13 Date of issue: 2020-05-13 Filename: 70103518_eng.pdf

Technical Data

Functional safety related parameters

MTTF _d	11850 a
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

EAC conformity	TR CU 012/2011
CCC approval	CCC approval / marking not required for products rated ≤36 V

Ambient conditions

Ambient temperature	-40 ... 100 °C (-40 ... 212 °F)
---------------------	---------------------------------

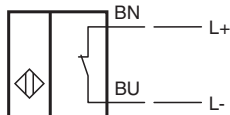
Mechanical specifications

Connection type	cable silicone , 10 m
Core cross-section	0.75 mm ²
Housing material	Crastin (PBT), black
Sensing face	Crastin (PBT), black
Degree of protection	IP68

General information

Use in the hazardous area	see instruction manuals
---------------------------	-------------------------

Connection



Accessories

	BF 18	Mounting flange, 18 mm
---	--------------	------------------------