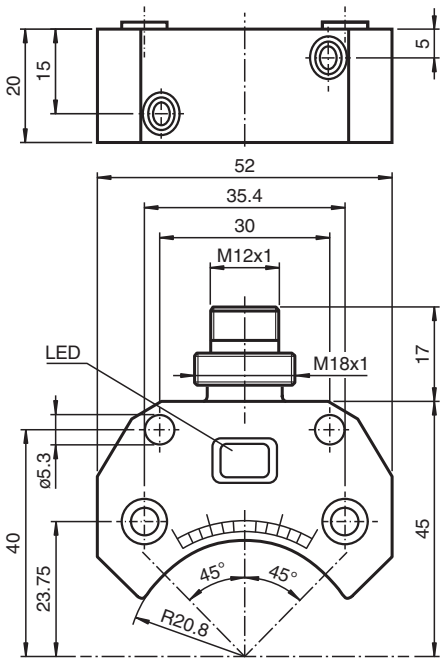


Inductive sensor

NCN3-F25F-N4-V1

- For installation in housing
- Direct mounting on standard actuators
- ATEX &IECEX certifications

Dimensions



Technical Data

General specifications		
Switching function		2 x normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	3 mm
Installation		flush mountable
Assured operating distance	s_a	0 ... 2.43 mm
Actual operating distance	s_r	2.7 ... 3.3 mm typ.
Reduction factor r_{Al}		0.52
Reduction factor r_{Cu}		0.43

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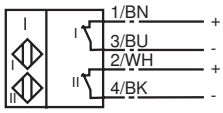
Technical Data

Reduction factor r_{304}		0.86
Reduction factor r_{St37}		1
Reduction factor r_{Brass}		0.54
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8.2 V (R_i approx. 1 kΩ)
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA
Time delay before availability	t_v	≤ 1 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
$MTTF_d$		1010 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
Electromagnetic compatibility		NE 21:2007
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
FM approval		
Control drawing		116-0165
UL approval		cULus Listed, General Purpose
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0456
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Mass		44 g
Tightening torque, fastening screws		M5 x 25 : 2.7 Nm
Note		Mounted on mechanical drive
General information		
Use in the hazardous area		see instruction manuals

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Connection

N4



Accessories

	**BT32**	Activator for F25 series
	**BT32XAS**	Activator for F25 series
	**BT33**	Activator for F25 series
	**BT34**	Activator for F25 series
	**V1-G-N4-5M-PUR**	Female cordset, M12, 4-pin, NAMUR, PUR cable

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