

Inductive sensor

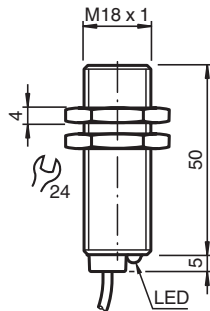
NRB8-18GS50-E2



- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing



Dimensions



Technical Data

General specifications			
Rated operating distance	s_n		8 mm
Installation			flush
Output polarity			switched high
Assured operating distance	s_a		0 ... 6.48 mm
Reduction factor r_{Al}			1
Reduction factor r_{Cu}			1
Reduction factor r_{304}			1
Reduction factor r_{S137}			1
Output type			3-wire
Nominal ratings			
Operating voltage	U_B		10 ... 30 V DC
Switching frequency	f		0 ... 1200 Hz
Hysteresis	H		typ. 5 %
Reverse polarity protection			reverse polarity protected
Short-circuit protection			pulsing
Voltage drop	U_d		≤ 2 V

Release date: 2022-05-25 Date of issue: 2022-05-25 Filename: 292528_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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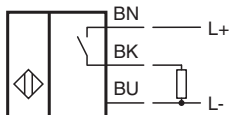
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Technical Data

Rated insulation voltage	U_{BIS}	60 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	\leq 14 mA
Time delay before availability	t_v	max. 15 ms
Constant magnetic field	B	200 mT
Alternating magnetic field	B	200 mT
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		1393 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
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		
Protection class		II
Rated insulation voltage	U_i	60 V
Rated impulse withstand voltage	U_{imp}	800 V
UL approval		cULus Listed, General Purpose Class 2 power source
CCC approval		CCC approval / marking not required for products rated \leq 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cablc PVC , 2 m
Core cross section		0.34 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP68 / IP69K
Cable		
Cable diameter		4.3 mm \pm 0.1 mm
Bending radius		> 15 x cable diameter
Mass		80 g
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Accessories

	<p>BF 18</p>	<p>Mounting flange, 18 mm</p>
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