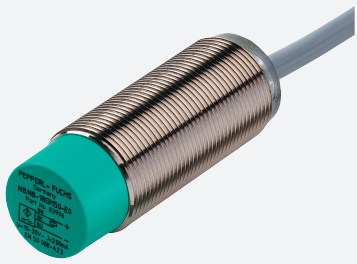


Inductive sensor

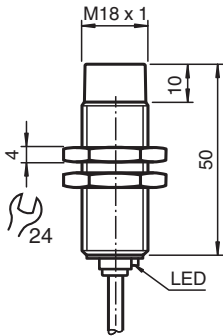
NBN8-18GS50-Z4L



- 8 mm non-flush
- 2-wire DC sensor with minimum off-state current
- Switching status indicator, yellow LED
- Stainless steel housing



Dimensions



Technical Data

General specifications			
Switching function			Normally open (NO)
Output type			Two-wire with minimum off-state current
Rated operating distance	s_n		8 mm
Installation			non-flush
Output polarity			DC
Assured operating distance	s_a		0 ... 6.48 mm
Actual operating distance	s_r		7.2 ... 8.8 mm
Reduction factor r_{Al}			0.4
Reduction factor r_{Cu}			0.35
Reduction factor r_{304}			0.7
Output type			2-wire
Nominal ratings			
Operating voltage	U_B		4 ... 30 V
Switching frequency	f		0 ... 500 Hz
Hysteresis	H		1 ... 10 typ. 5 %
Reverse polarity protection			yes
Short-circuit protection			pulsing
Voltage drop	U_d		≤ 4 V
Operating current	I_L		2 ... 30 mA
Lowest operating current	I_m		2 mA

Release date: 2024-05-28 Date of issue: 2024-06-04 Filename: 323676-0010_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

Technical Data

Off-state current	I_r	$\leq 200 \mu\text{A}$
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		1581 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross section		0.34 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Mass		104 g
Dimensions		
Length		56 mm
Diameter		18 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection

