

Inductive sensor

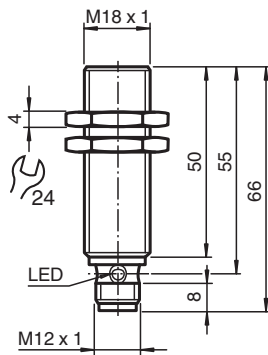
NBB5-18GS50-Z4L-V1



- 5 mm 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	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Actual operating distance	s_r	4.5 ... 5.5 mm
Reduction factor r_{Al}		0.2
Reduction factor r_{Cu}		0.13
Reduction factor r_{304}		0.62
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

Release date: 2024-12-10 Date of issue: 2024-12-10 Filename: 323676-0009_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

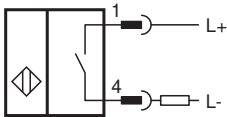
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

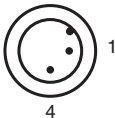
Technical Data

Lowest operating current	I _m	2 mA
Off-state current	I _r	≤ 200 µA
Switching state indicator		Multihole-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 ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		2
Mass		61 g
Dimensions		
Length		66 mm
Diameter		18 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Connection Assignment



Release date: 2024-12-10 Date of issue: 2024-12-10 Filename: 323676-0009_eng.pdf