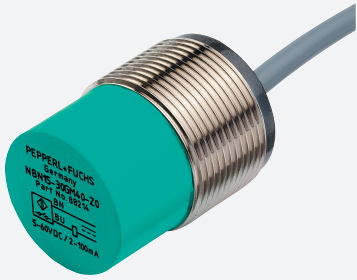


Inductive sensor

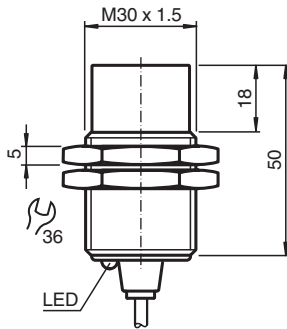
NBN15-30GS50-Z4L



- 15 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	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.2 mm
Actual operating distance	s_r	13.5 ... 16.5 mm typ.
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 ... 150 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: 2024-12-10 Date of issue: 2024-12-10 Filename: 323676-0018_eng.pdf

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		1536 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
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.8 mm \pm 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		2
Core cross section		0.34 mm ²
Length	L	2 m
Mass		165 g
Dimensions		
Length		61 mm
Diameter		30 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection

