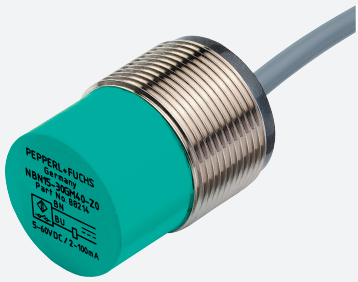


Inductive sensor

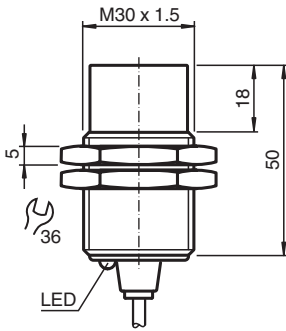
NBN15-30GS50-Z4L-3G-3D



- 15 mm non-flush
- 2-wire DC sensor with minimum off-state current
- Switching status indicator, yellow LED
- ATEX-/IECEx-approvals for zone 2/22 (Ex ec/tc)
- 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 ... 700 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: 2024-06-01 Filename: 70134926-0011_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		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		
IECEx approval		
Equipment protection level Gc (ec)		IECEx TUR 21.0017X
Equipment protection level Dc (tc)		IECEx TUR 21.0018X
ATEX approval		
Equipment protection level Gc (ec)		TÜV 20 ATEX 8523 X
Equipment protection level Dc (tc)		TÜV 20 ATEX 8524 X
UL approval		cULus Listed, General Purpose, Class 2 Power Source
KCC approval		
Hazardous Location		23-AV4BO-0237X
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PVC , 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		170 g
Dimensions		
Length		61 mm
Diameter		30 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection

