

Inductive sensor

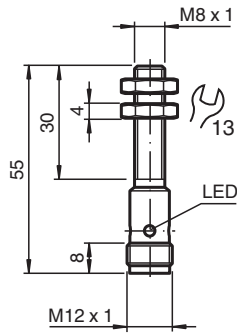
NBB2-8GS30-A2-V1



- 2 mm flush
- Increased operating distance
- Stainless steel version
- Extended temperature range
-40 ... +85 °C



Dimensions



Technical Data

General specifications			
Switching function			complementary
Output type			PNP
Rated operating distance	s_n		2 mm
Installation			flush
Output polarity			DC
Assured operating distance	s_a		0 ... 1.62 mm
Actuating element			mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor r_{Al}			0.2
Reduction factor r_{Cu}			0.1
Reduction factor r_{304}			0.55
Reduction factor r_{Brass}			0.25
Output type			4-wire
Nominal ratings			
Operating voltage	U_B		5 ... 30 V
Switching frequency	f		0 ... 6000 Hz
Hysteresis	H		typ. 5%
Reverse polarity protection			reverse polarity protected
Short-circuit protection			pulsing
Voltage drop	U_d		≤ 1.5 V
Operating current	I_L		0 ... 100 mA

Release date: 2024-05-28 Date of issue: 2024-06-05 Filename: 304615-0211_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

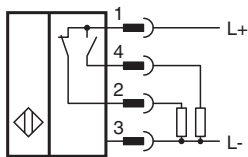
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

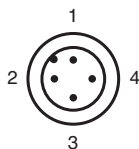
Technical Data

Off-state current	I_r	0 ... 0.2 mA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 100 ms
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		960 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		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		LCP
Degree of protection		IP65 / IP66 / IP67
Dimensions		
Length		55 mm
Diameter		8 mm
General information		
Scope of delivery		2 hex nuts included

Connection



Connection Assignment



Connection Assignment

Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
2		WH	(white)
3		BU	(blue)
4		BK	(black)