

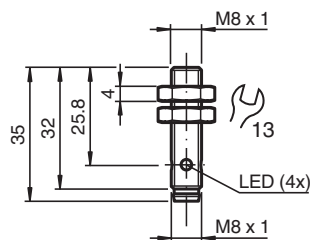
Inductive sensor

NBB2-8GM20-E2-V3-Y0219

- 2 mm flush
- Increased operating distance
- Extended temperature range
-40 ... +85 °C
- Full-length thread



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
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}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.75
Reduction factor r _{Brass}		0.45
Output type		3-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
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		

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

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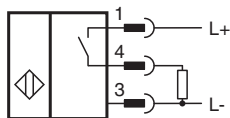
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PEPPERL+FUCHS

Technical Data

MTTF _d	960 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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 M8 x 1 , 3-pin
Housing material	brass, nickel-plated
Sensing face	LCP
Degree of protection	IP67
General information	
Scope of delivery	2 hex nuts included

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Accessories

	BF 8	Mounting flange, 8 mm
	V3-WM-2M-PUR	Female cordset single-ended, M8, 3-pin, PUR cable
	EXG-08	Quick mounting bracket with dead stop