



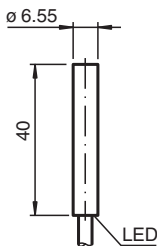
Inductive sensor

NEB3-6,5M40-E2-PUR

- 3 mm quasi flush
- Increased operating distance
- Extended temperature range



Dimensions



Technical Data

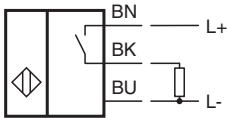
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	3 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	s _a	0 ... 2.43 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 9 mm x 9 mm x 1 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.7
Reduction factor r _{Brass}		0.45
Output type		3-wire
Nominal ratings		
Installation conditions		
A		in steel 1.0037 (St37): 1 mm
B		6 mm
C		9 mm
F		16 mm
Operating voltage	U _B	5 ... 30 V
Switching frequency	f	0 ... 3500 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected

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

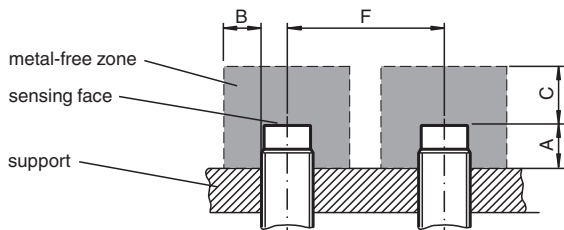
Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 1.5\text{ V}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.2 mA
No-load supply current	I_0	$\leq 10\text{ mA}$
Time delay before availability	t_v	$\leq 100\text{ ms}$
Switching state indicator		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
CCC approval		CCC approval / marking not required for products rated $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross section		0.14 mm ²
Housing material		brass, nickel-plated
Sensing face		LCP
Degree of protection		IP65 / IP66 / IP67
Cable		
Cable diameter		3.3 mm $\pm$ 0.15 mm
Bending radius		> 10 x cable diameter
Dimensions		
Length		40 mm
Diameter		6.5 mm

Connection



Installation



Release date: 2024-05-28 Date of issue: 2024-06-01 Filename: 304615-0147_eng.pdf