

Inductive sensor

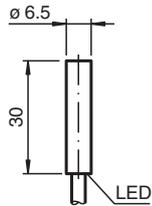
NBB2-6,5M30-E0



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



Dimensions



Technical Data

General specifications			
Switching function			Normally open (NO)
Output type			NPN
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) 6.5 mm x 6.5 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			
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

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

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Technical Data

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 Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
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		cable
Housing material		brass, nickel-plated
Sensing face		LCP
Degree of protection		IP65 / IP66 / IP67
Cable		
Wire end ferrules		yes
Cable diameter		3.5 mm ± 0.1 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		black
Number of cores		3
Core cross section		0.14 mm ²
Length	L	2 m
Dimensions		
Length		30 mm
Diameter		6.5 mm

Connection Assignment

