

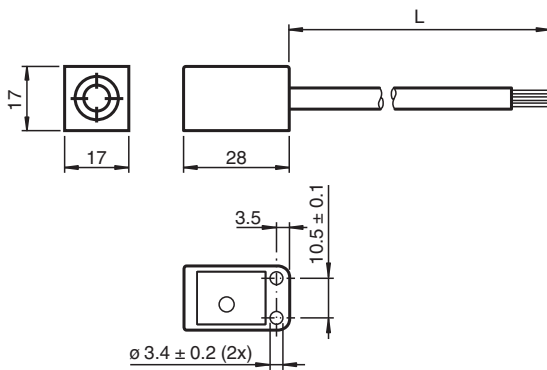


Inductive sensor NBN5-F7A-E2-Y70204717

- Extended operating voltage range
- Operating distance 5 mm
- Optimized oscillator frequency



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		single-sided flush mountable
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Reduction factor r_{AI}		0.4
Reduction factor r_{Cu}		0.37
Reduction factor r_{304}		0.89
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 36 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C

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

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PEPPERL+FUCHS

Technical Data

No-load supply current	I_0	$\leq 9 \text{ mA}$
Switching state indicator		LED, yellow
Safety-relevant product characteristics		
MTTF _d		1396 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: 60 V DC Output Switching Current: 100 mA
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F) -30 ... 70 °C (-22 ... 158 °F) , fixed installation
Storage temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		3.5 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		grey
Number of cores		3
Core cross section		0.14 mm ²
Length	L	2 m
Tightening torque, fastening screws		$\leq 0.3 \text{ Nm}$
Dimensions		
Height		17 mm
Width		17 mm
Length		28 mm

Connection Assignment

