

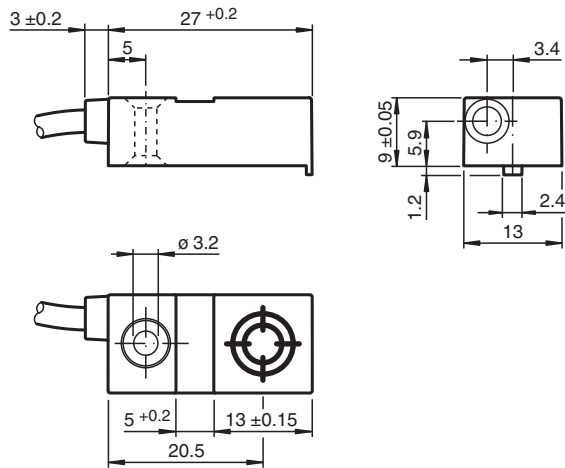


Inductive sensor NBN6-F29B-E0

- 3-wire DC
- 6 mm non-flush



Dimensions



Technical Data

General specifications			
Rated operating distance	s_n		6 mm
Installation			for non-flush mounting
Output polarity			DC
Assured operating distance	s_a		0 ... 4.86 mm
Reduction factor r_{Al}			0.4
Reduction factor r_{Cu}			0.3
Reduction factor r_{304}			0.7
Output type			3-wire
Nominal ratings			
Operating voltage	U_B		10 ... 30 V DC
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

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Technical Data

Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	\leq 10 mA
Time delay before availability	t_v	\leq 5 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1340 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 \leq 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable
Housing material		PC
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		3.5 mm \pm 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
Dimensions		
Height		9 mm
Width		13 mm
Length		27 mm

Connection

