

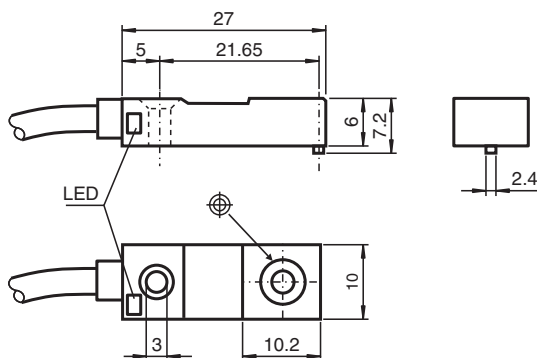


Inductive sensor NBN4-F29-E3-5M

■ Basic series



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)	
Output type	PNP	
Rated operating distance	s_n	4 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 3.24 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	4.75 ... 30 V DC
Switching frequency	f	0 ... 1000 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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Technical Data

No-load supply current	I_0	$\leq 10\text{ mA}$
Time delay before availability	t_v	$\leq 5\text{ ms}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		2133 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		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PVC , 5 m
Core cross section		0.14 mm ²
Housing material		PPS
Sensing face		PPS
Degree of protection		IP67
Dimensions		
Height		6 mm
Width		10 mm
Length		27 mm

Connection Assignment

