

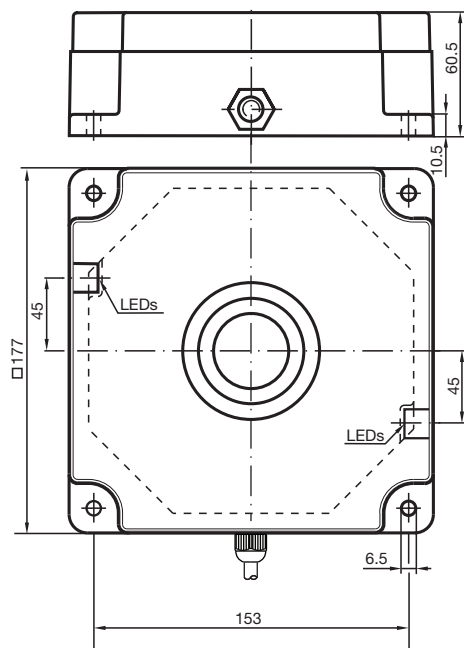
Inductive sensor

NCN100-F23-E2-Y906242

- 100 mm non-flush
- 3-wire DC



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	100 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 81 mm
Actuating element		150 mm x 150 mm x 1 mm
Reduction factor r_{Al}		0.37
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		1
Reduction factor r_{Brass}		0.47
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 10 Hz
Hysteresis	H	typ. 8 %
Reverse polarity protection		reverse polarity protected

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

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Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2.5 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA
Off-state current $U_B = 1.1 \times U_e$, switching element off		0 ... 0.5 mA
No-load supply current	I_0	$\leq 20 \text{ mA}$
Time delay before availability	t_v	250 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, red
Functional safety related parameters		
MTTF _d		911 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		3 conductor , 18 AWG , yellow PUR, 7mm O.D., with cable gland; shield connected to base plate
Housing material		ABS (TSG), bottom Al
Sensing face		ABS
Degree of protection		IP67
General information		
Note		The mounting conditions must be checked on a case-by-case basis depending on the application in question.

Connection

