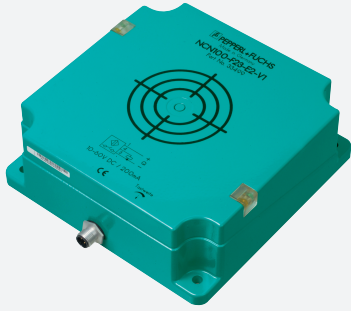


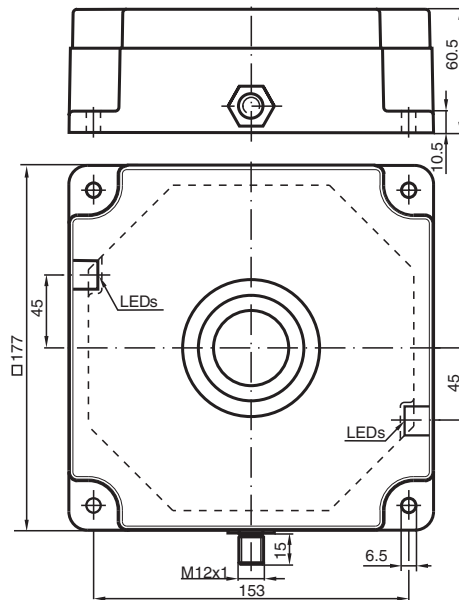


Inductive sensor NCN100-F23-E2-V1

- 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
Actual operating distance	s_r	90 ... 110 mm typ.
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

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

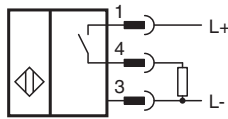
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

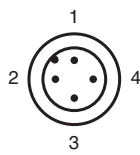
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 10 Hz
Hysteresis	H	typ. 8 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Voltage drop at I_L		
Voltage drop $I_L = 200$ mA, switching element on	U_d	1.3 ... 2.2 V typ. 1.9 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	
Off-state current $U_B = 1.1 \times U_{e\text{,}}$ switching element off		0 ... 0.5 mA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	≤ 90 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
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 IEC 60947-5-2
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		Connector plug M12 x 1 , 4-pin
Housing material		ABS (TSG), bottom Al
Sensing face		ABS
Degree of protection		IP67
Dimensions		
Height		60.5 mm
Width		177 mm
Length		177 mm
General information		
Note		The mounting conditions must be checked on a case-by-case basis depending on the application in question.

Connection



Release date: 2024-05-27 Date of issue: 2024-05-28 Filename: 033499_eng.pdf

Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Release date: 2024-05-27 Date of issue: 2024-05-28 Filename: 033499_eng.pdf