



Model Number

NCN100-F23-E2-V1

Features

- 100 mm non-flush
- 3-wire DC

Accessories

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching element function		PNP	NO
Rated operating distance	s_n	100 mm	
Installation		non-flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 81 mm	
Reduction factor r_{Al}		0.37	
Reduction factor r_{Cu}		0.35	
Reduction factor r_{304}		1	
Reduction factor r_{Brass}		0.47	

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
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	
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 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	Connector M12 x 1, 4-pin
Housing material	ABS (TSG), bottom Al
Sensing face	ABS
Housing base	aluminum
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.
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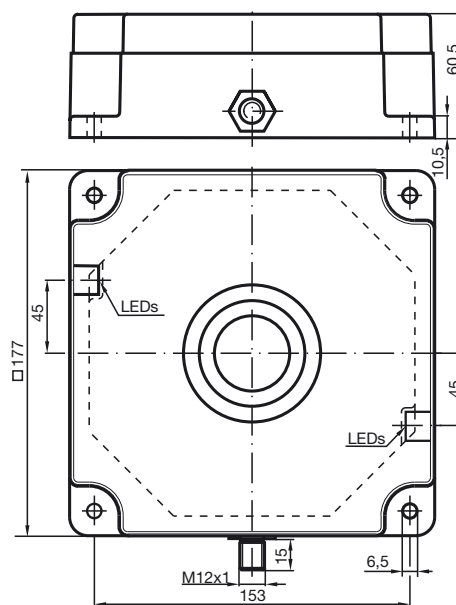
Compliance with standards and directives

Standard conformity	
Standards	EN 50044

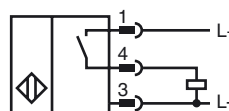
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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