



Model Number

NMN20-18GH50-E2-V1

Features

- 20 mm non-flush
- Active surface metal
- One-piece housing with stainless steel (V4A; 1.4435)

Accessories

BF 18

Mounting flange, 18 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 20 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	s_a 0 ... 16.2 mm
Reduction factor r_{Al}	1
Reduction factor r_{Cu}	0.9
Reduction factor r_{304}	0.3 (0.6 of material thickness 2 mm)
Reduction factor r_{Si37}	1
Output type	3-wire

Nominal ratings

Installation conditions	
A	34 mm (mild steel) 36 mm (stainless steel) 20 mm (aluminum) 22 mm (brass)
B	41 mm
C	60 mm
F	200 mm
Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 200 Hz
Hysteresis	H 3 ... 15 typ. 5 %
Reverse polarity protection	yes
Short-circuit protection	yes
Voltage drop	U_d ≤ 2 V
Operating current	I_L 0 ... 200 mA
Off-state current	I_r ≤ 0.1 mA
No-load supply current	I_0 ≤ 10 mA
Time delay before availability	t_v ≤ 40 ms
Switching state indicator	LED, yellow

Limit data

Operating pressure statically	60 bar (870.2 psi) max.
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Functional safety related parameters

MTTF _d	655 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
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Mechanical specifications

Connection type	Connector plug M12 x 1, 4-pin
Housing material	Stainless steel 1.4435 / AISI 316L
Sensing face	Stainless steel 1.4435 / AISI 316L
Degree of protection	IP68 / IP69K
Mass	24 g

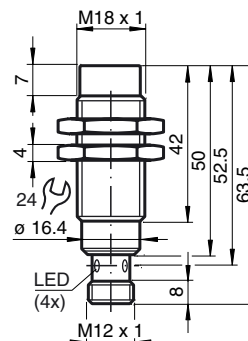
Compliance with standards and directives

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

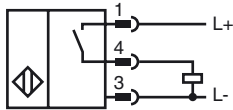
Approvals and certificates

UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

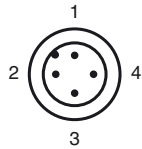
Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Installation Conditions

