



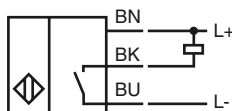
Model Number

NEN20-18GM50-E0

Features

- Increased operating distance
- 20 mm non-flush

Connection



Accessories

BF 18

Mounting flange, 18 mm

V1-G

4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

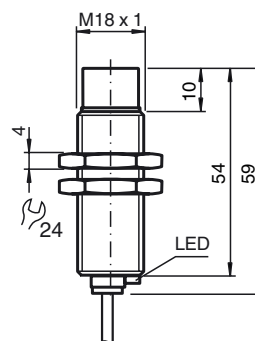
V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

EXG-18

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

Switching element function	NPN	NO
Rated operating distance	s_n	20 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 16.2 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 60 mm x 60 mm x 1 mm
Reduction factor r_{Al}		0.35
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.7
Reduction factor r_{Brass}		0.45

Nominal ratings

Installation conditions	
A	in steel 1.0037 (St37): 20 mm
B	30 mm
C	60 mm
F	78 mm
Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 200 Hz
Hysteresis	H 0.1 ... 2 mm
Reverse polarity protection	yes
Short-circuit protection	pulsing
Overload resistance	yes
Wire breakage protection	yes
Inductive overvoltage protection	yes
Surge suppression	yes
Ripple	10 %
Voltage drop	U_d ≤ 2 V
Repeat accuracy	1 mm
Operating current	I_L 0 ... 200 mA
Off-state current	I_r ≤ 10 μ A
No-load supply current	I_0 ≤ 11 mA
Time delay before availability	t_v ≤ 50 ms
Indication of the switching state	LED, yellow

Functional safety related parameters

MTTF _d	1960 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	100 g
Tightening torque, fastening screws	max. 20 Nm

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.
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Installation conditions

