



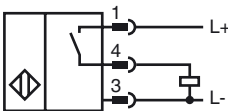
### Model Number

NBN8-18GM50-E2-T-V1

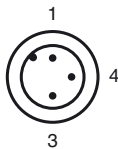
### Features

- Extended temperature range
- 8 mm non-flush

### Connection



### Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

### Accessories

#### BF 18

Mounting flange, 18 mm

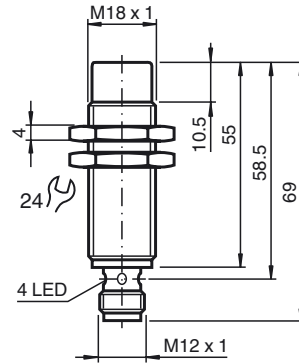
#### V1-W

4-pin, M12 female field-attachable connector

#### V1-G

4-pin, M12 female field-attachable connector

### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	NO
Rated operating distance	$s_n$	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 6.48 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 24 mm x 24 mm x 1 mm
Reduction factor $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.3
Reduction factor $r_{304}$		0.7
Reduction factor $r_{Brass}$		0.4

#### Nominal ratings

Installation conditions	
A	15 mm
B	20 mm
C	15 mm
F	28 mm
Operating voltage	$U_B$ 10 ... 30 V
Switching frequency	$f$ 0 ... 300 Hz
Hysteresis	$H$ 0.04 ... 1.76 mm
Reverse polarity protection	yes
Short-circuit protection	yes
Overload resistance	yes
Wire breakage protection	yes
Inductive overvoltage protection	yes
Ripple	10 %
Voltage drop	$U_d$ $\leq$ 2.5 V
Repeat accuracy	0.2 mm
Operating current	$I_L$ 0 ... 200 mA
Off-state current	$I_r$ 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$ $\leq$ 7 mA
Time delay before availability	$t_v$ $\leq$ 40 ms
Switching state indication	Multihole-LED, yellow

#### Functional safety related parameters

MTTF <sub>d</sub>	1935 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

#### Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)

#### Mechanical specifications

Connection type	Device connector M12 x 1 , 3-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	50 g

#### 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 $\leq$ 36 V do not bear a CCC marking because they do not require approval.
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