



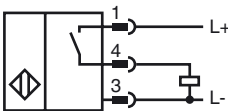
**Model Number**

NBN4-12GK50-E2-1,5M-V1

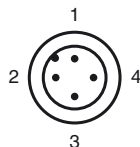
**Features**

- 4 mm not embeddable
- With increased sealing, protection class IP68 / IP69k

**Connection**



**Pinout**



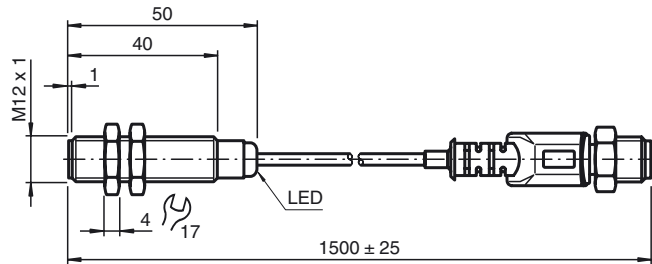
Wire colors in accordance with EN 60947-5-2

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

**Accessories**

**BF 12**  
Mounting flange, 12 mm

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	PNP	NO
Rated operating distance	$s_n$	4 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 3.24 mm
Reduction factor $r_{AI}$		0.5
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{303}$		0.8

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 1200 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	≤ 3 V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 µA at 25 °C
No-load supply current	$I_0$	≤ 17 mA
Indication of the switching state		LED, yellow

**Ambient conditions**

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

Connection type	Cable connector M12 x 1
Core cross-section	0.14 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Protection degree	IP68 / IP69K
Note	use only delivered nuts

**Compliance with standards and directives**

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

**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Release date: 2011-05-24 13:20 Date of issue: 2011-05-24 230555\_ENG.xm