



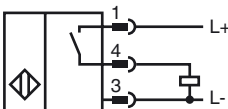
**Model Number**

**NBN8-18GM80-E2-V1**

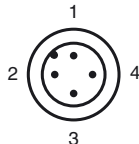
**Features**

- 8 mm not embeddable

**Connection**



**Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN
2	WH
3	BU
4	BK

**Accessories**

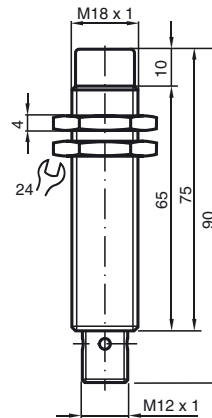
**BF 18**  
Mounting flange, 18 mm

**V1-W**  
Field attachable female cordset

**V1-G-2M-PUR**  
Cable socket, M12, 4-pin, PUR cable

**V1-W-2M-PUR**  
Cable socket, M12, 4-pin, PUR cable

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	PNP NO
Rated operating distance	$s_n$ 8 mm
Installation	not embeddable
Output polarity	DC
Assured operating distance	$s_a$ 0 ... 6.48 mm
Reduction factor $r_{AI}$	0.5
Reduction factor $r_{Cu}$	0.4
Reduction factor $r_{V2A}$	0.7

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
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	$I_0$	$\leq 18$ mA
Indication of the switching state		Multihole-LED, yellow

**Functional safety related parameters**

MTTF <sub>d</sub>	1740 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

**Ambient conditions**

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

Connection type	Device connector M12 x 1 , 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

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

Release date: 2010-11-16 11:41 Date of issue: 2010-11-19 128448\_ENG.xml