



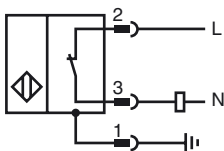
**Model Number**

NBB5-18GM80-WO-V93

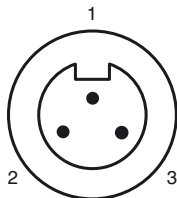
**Features**

- 5 mm flush
- 2-wire AC

**Connection**



**Pinout**



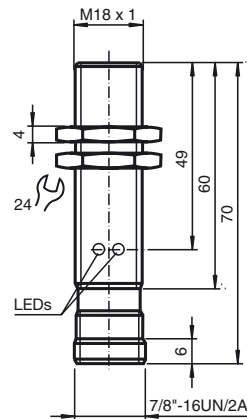
**Wire colors**

1	GN	(green)
2	BK	(black)
3	WH	(white)

**Accessories**

- BF 18**  
Mounting flange, 18 mm
- EXG-18**  
Quick mounting bracket with dead stop

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	AC	NC
Rated operating distance	$s_n$	5 mm
Installation	flush	
Output polarity	AC	
Assured operating distance	$s_a$	0 ... 4.05 mm
Reduction factor $r_{AI}$	0.2	
Reduction factor $r_{Cu}$	0.2	
Reduction factor $r_{304}$	0.6	

**Nominal ratings**

Operating voltage	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Hysteresis	$H$	typ. 6 %
Reverse polarity protection	tolerant	
Voltage drop	$U_d$	< 5 V ( $I_L > 50$ mA); < 8 V ( $I_L < 50$ mA)
Momentary current (20 ms, 0.1 Hz)	0 ... 1600 mA	
Operating current	$I_L$	5 ... 200 mA
Off-state current	$I_r$	0 ... 1.7 mA typ.
Time delay before availability	$t_v$	≤ 30 ms
Operating voltage display	LED, green	
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	Device connector 7/8"-16 UN , 3-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Note	1) In the temperature range below 0 °C, permissible operating voltage $U_B$ 80...253 V Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

**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	Certified by China Compulsory Certification (CCC)

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