



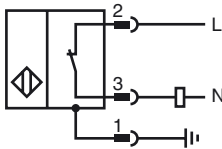
**Model Number**

NBB10-30GM50-WO-V12

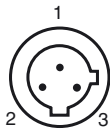
**Features**

- Basic series
- 10 mm flush
- 2-wire AC

**Connection**



**Pinout**



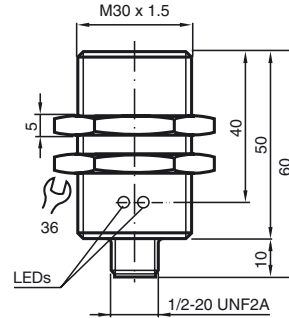
**Wire colors**

- |   |  |                   |
|---|--|-------------------|
| 1 |  | GN (green)        |
| 2 |  | RD/BK (red/black) |
| 3 |  | RD/WH (red/white) |

**Accessories**

- BF 30**  
Mounting flange, 30 mm
- EXG-30**  
Quick mounting bracket with dead stop

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	AC	NC
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		AC
Assured operating distance	$s_a$	0 ... 8.1 mm
Reduction factor $r_{Al}$		0.33
Reduction factor $r_{Cu}$		0.28
Reduction factor $r_{304}$		0.81

**Nominal ratings**

Operating voltage	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Hysteresis	$H$	typ. 5 %
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
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 1/2"-20 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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