



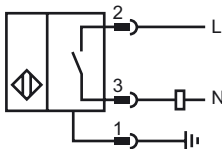
**Model Number**

NBB2-12GM60-WO-V12

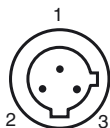
**Features**

- 2 mm embeddable
- 2-wire AC

**Connection**



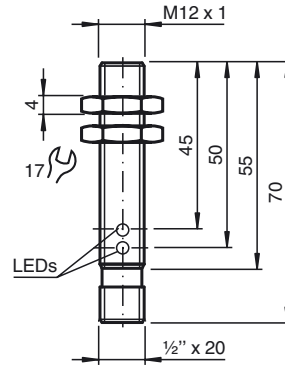
**Pinout**



Wire colors

1	GN
2	RD/BK
3	RD/WH

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	AC	NC
Rated operating distance	$s_n$	2 mm
Installation	embeddable	
Output polarity	AC	
Assured operating distance	$s_a$	0 ... 1.62 mm
Reduction factor $r_{Al}$	0.5	
Reduction factor $r_{Cu}$	0.4	
Reduction factor $r_{V2A}$	0.8	

**Nominal ratings**

Operating voltage	$U_B$	20 ... 150 V
Switching frequency	$f$	0 ... 25 Hz
Hysteresis	$H$	3 ... 15 typ. 5 %
Reverse polarity protected	tolerant	
Voltage drop	$U_d$	≤ 5 V
Momentary current (20 ms, 0.1 Hz)	0 ... 1700 mA	
Operating current	$I_L$	5 ... 200 mA
Off-state current	$I_r$	0 ... 1.7 mA typ.
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
Mass	125 g
Note	1) In the temperature range below 0 °C, permissible operating voltage $U_B$ 80...253 V Safety fuse ≤ 0.3 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

**General information**

Scope of delivery	2 self locking nuts in scope of delivery
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**Compliance with standards and directives**

Standard conformity	EN 60947-5-2:2007 IEC 60947-5-2:2007
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**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

Release date: 2010-10-20 10:56 Date of issue: 2010-10-20 085295\_ENG.xml