



**Model Number**

**NBB10-30GM50-WS-V12**

**Features**

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

**Accessories**

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

**Technical Data**

**General specifications**

Switching element function		AC	NO
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		reverse polarity 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 indicator		LED, green
Switching state indicator		LED, yellow

**Ambient conditions**

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

Connection type	Connector 1/2"-20 UN , 3-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Note	1) In the temperature range below 0 °C, permissible operating voltage $U_B$ 80...253 V Safety fuse $\leq 0.3$ A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

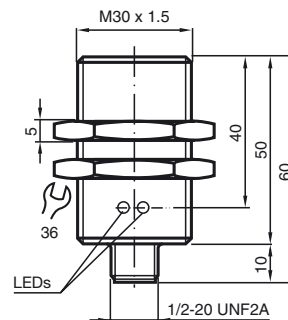
**Compliance with standards and directives**

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

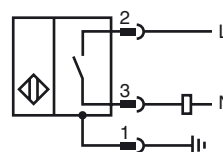
**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

**Dimensions**

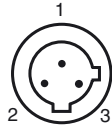


**Electrical Connection**



Release date: 2015-02-24 10:35 Date of issue: 2015-02-24 801693\_eng.xml

Pinout



Wire colors

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