

# Inductive sensor

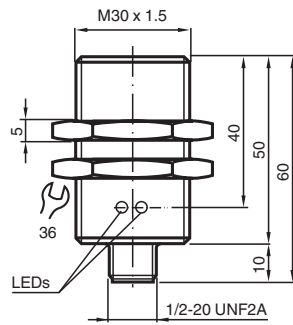
## NBB10-30GM50-WO-V12



- 10 mm flush
- 2-wire AC



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		AC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actual operating distance	$s_r$	9 ... 11 mm
Reduction factor $r_{AI}$		0.33
Reduction factor $r_{Cu}$		0.28
Reduction factor $r_{304}$		0.81
Output type		2-wire

#### Nominal ratings

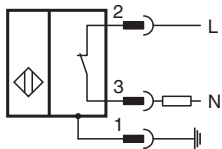
Operating voltage	$U_B$	20 ... 253 V
Switching frequency	$f$	0 ... 20 Hz
Hysteresis	$H$	1 ... 10 % typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Voltage drop	$U_d$	< 5 V ( $I_L > 50$ mA); < 8 V ( $I_L < 50$ mA)
Momentary current (20 ms, 0.1 Hz)		0 ... 1600 mA
Operating current	$I_L$	5 ... 200 mA

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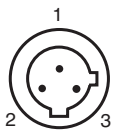
## Technical Data

Off-state current	$I_r$	0 ... 1.7 mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
<b>Connector</b>		
Threading		1/2"-20 UN
Number of pins		3
<b>Dimensions</b>		
Length		60 mm
Diameter		30 mm
Note		1) In the temperature range below 0 °C, permissible operating voltage $U_b$ 80...253 V Safety fuse $\leq$ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

## Connection



## Connection Assignment



### Wire colors

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