



# Inductive sensor

## NBB5-18GM50-E2-C-V1

- 5 mm flush
- Weld Immune



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 4.05 mm
Reduction factor $r_{Al}$		0.3
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.6
Output type		3-wire

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 800 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 15$ mA
Constant magnetic field	$B$	150 mT
Alternating magnetic field	$B$	150 mT
Switching state indicator		Multihole-LED, yellow

#### Functional safety related parameters

MTTF <sub>d</sub>		1570 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %

#### Indicators/operating means

Operation indicator		4-way LED Yellow: output
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#### Compliance with standards and directives

Standard conformity		
Standards		EN IEC 60947-5-2

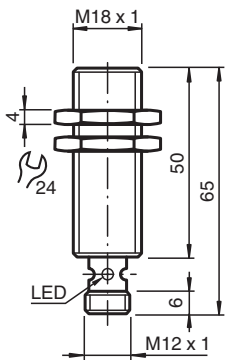
#### Approvals and certificates

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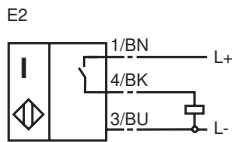
**Technical Data**

UL approval	cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 200 mA
CCC approval	CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug
Housing material	Brass, PTFE coated
Sensing face	PPS
Degree of protection	IP67
Connector	
Threading	M12 x 1
Number of pins	4
<b>Dimensions</b>	
Length	50 mm
Diameter	18 mm

**Dimensions**



**Connection**



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