

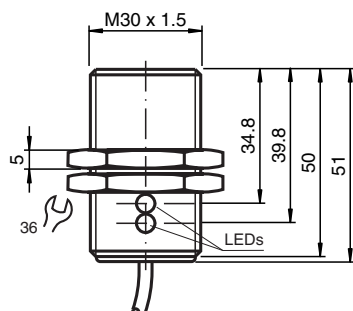
## Inductive sensor

NBB15-30GM50-US-8M

- Basic series
- 15 mm flush
- 2-wire AC/DC



## Dimensions



## Technical Data

### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | Two-wire           |
| Rated operating distance   | $s_n$ | 15 mm              |
| Installation               |       | flush              |
| Output polarity            |       | AC/DC              |
| Reduction factor $r_{AI}$  |       | 0.5                |
| Reduction factor $r_{Cu}$  |       | 0.45               |
| Reduction factor $r_{304}$ |       | 0.75               |
| Output type                |       | 2-wire             |

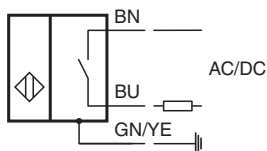
### Nominal ratings

|                     |       |                                 |
|---------------------|-------|---------------------------------|
| Operating voltage   | $U_B$ | 20 ... 250 V AC/20 ... 300 V DC |
| Switching frequency | $f$   | 30 Hz                           |

## Technical Data

|                                                 |       |                                                                                             |
|-------------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Hysteresis                                      | H     | 3 ... 15 typ. 5 %                                                                           |
| Reverse polarity protection                     |       | reverse polarity tolerant                                                                   |
| Short-circuit protection                        |       | yes                                                                                         |
| Voltage drop                                    | $U_d$ | $\leq 8$ V                                                                                  |
| Operating current                               | $I_L$ | 4 ... 500 mA AC/DC                                                                          |
| Off-state current                               | $I_r$ | $\leq 0.8$ mA                                                                               |
| Operating voltage indicator                     |       | LED, green                                                                                  |
| Switching state indicator                       |       | LED, yellow                                                                                 |
| <b>Functional safety related parameters</b>     |       |                                                                                             |
| MTTF <sub>d</sub>                               |       | 1036 a                                                                                      |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                                                                        |
| Diagnostic Coverage (DC)                        |       | 0 %                                                                                         |
| <b>Compliance with standards and directives</b> |       |                                                                                             |
| Standard conformity                             |       |                                                                                             |
| Standards                                       |       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <b>Approvals and certificates</b>               |       |                                                                                             |
| UL approval                                     |       | cULus 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                                 |       | cable PUR , 8 m                                                                             |
| Core cross-section                              |       | 0.5 mm <sup>2</sup>                                                                         |
| Housing material                                |       | brass, nickel-plated                                                                        |
| Sensing face                                    |       | PBT                                                                                         |
| Degree of protection                            |       | IP67                                                                                        |

## Connection



## Accessories

|                                                                                     |               |                                       |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------|
|  | <b>EXG-30</b> | Quick mounting bracket with dead stop |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------|