



CE

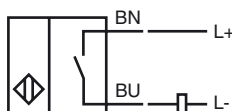
### Model Number

NBB10-30GM50-Z0-T

### Features

- Extended temperature range
- 10 mm flush
- Two wire, normally open contact

### Connection



### Accessories

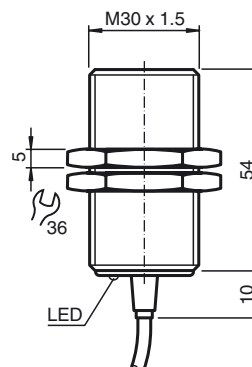
#### BF 30

Mounting flange, 30 mm

#### EXG-30

Quick mounting bracket with dead stop

### Dimensions



### Technical Data

#### General specifications

Switching element function	DC	NO
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 30 mm x 30 mm x 1 mm
Reduction factor $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.3
Reduction factor $r_{304}$		0.7
Reduction factor $r_{Brass}$		0.4

#### Nominal ratings

Installation conditions		
B		25 mm
C		16 mm
F		37 mm
Operating voltage	$U_B$	15 ... 30 V
Switching frequency	f	0 ... 300 Hz
Hysteresis	H	0.05 ... 2.2 mm
Reverse polarity protection		yes
Short-circuit protection		no
Overload resistance		no
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	$U_d$	$\leq 8$ V
Repeat accuracy		0.3 mm
Operating current	$I_L$	2 ... 25 mA
Lowest operating current	$I_m$	2 mA
No-load supply current	$I_0$	$\leq 1.5$ mA
Time delay before availability	$t_v$	$\leq 40$ ms
Switching state indication		LED, yellow

#### Functional safety related parameters

Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

#### Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)

#### Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.25 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	145 g

#### Compliance with standards and directives

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

#### Approvals and certificates

CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.
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