



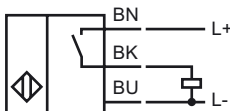
### Model Number

NBB10-30GM40-E2

### Features

- Basic series
- 10 mm embeddable

### Connection



### Accessories

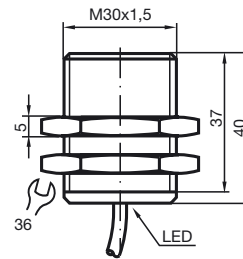
#### BF 30

Mounting flange, 30 mm

#### EXG-30

Quick mounting bracket with dead stop

## Dimensions



## Technical Data

### General specifications

Switching element function		PNP	NO
Rated operating distance	$s_n$	10 mm	
Installation		embeddable	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 8.1 mm	
Reduction factor $r_{A1}$		0.3	
Reduction factor $r_{Cu}$		0.2	
Reduction factor $r_{303}$		0.75	

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 200 Hz
Hysteresis	$H$	3 ... 10 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 100 mA
Lowest operating current	$I_m$	2 mA
Indication of the switching state		all direction LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>	2010 a
Mission Time ( $T_M$ )	20 a

### Ambient conditions

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

Connection type	cable PVC, 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

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