



### Model Number

**NBN25-30GM50-E0**

### Features

- Basic series
- 25 mm non-flush
- Increased operating distance

### Accessories

#### BF 30

Mounting flange, 30 mm

## Technical Data

### General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	$s_n$	25 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 20.25 mm
Reduction factor $r_{AI}$		0.5
Reduction factor $r_{CU}$		0.4
Reduction factor $r_{304}$		0.8
Output type		3-wire

### Nominal ratings

Installation conditions		
A		28 mm
B		40 mm
C		75 mm
F		120 mm
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 200 Hz
Hysteresis	H	typ. 5%
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	$I_r$	$\leq 10$ $\mu$ A
No-load supply current	$I_0$	$\leq 10$ mA
Switching state indicator		all direction LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>		1140 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %

### Ambient conditions

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

### 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
Degree of protection		IP67
Cable		
Cable diameter		4.6 mm $\pm$ 0.2 mm
Bending radius		> 10 x cable diameter

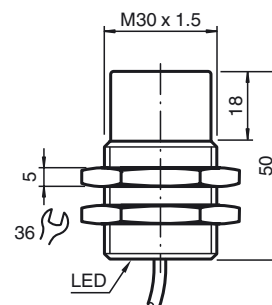
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

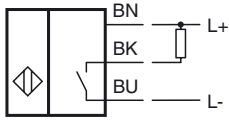
### Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq 36$ V

## Dimensions



Electrical Connection



Installation Conditions

