



## Model Number

**NBB15-30GM50-US-V12**

## Features

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

## Accessories

### BF 30

Mounting flange, 30 mm

### EXG-30

Quick mounting bracket with dead stop

## 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	3-wire

### Nominal ratings

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

### Functional safety related parameters

MTTF <sub>d</sub>	1036 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

### Mechanical specifications

Connection type	Connector 1/2"-20 UN , 3-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

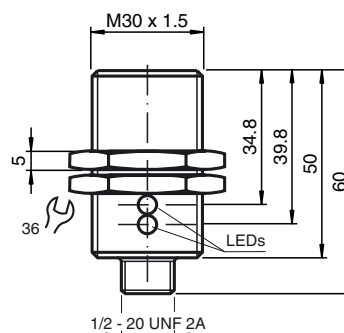
### Compliance with standards and directives

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

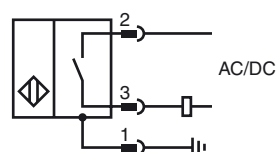
### Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

## Dimensions



## Electrical Connection



Pinout



Wire colors

1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)