



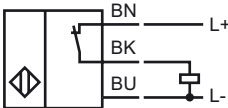
### Model Number

NBB1,5-F41-E3

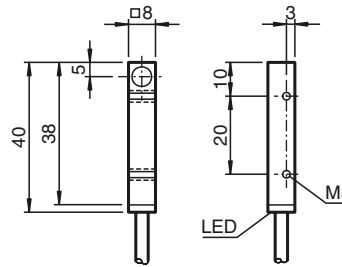
### Features

- 1.5 mm embeddable
- 3-wire DC
- Metal housing

### Connection



### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	NC
Rated operating distance	$s_n$	1.5 mm
Installation		embeddable
Output polarity		switched high
Assured operating distance	$s_a$	0 ... 1.215 mm
Reduction factor $r_{AI}$		0.45
Reduction factor $r_{Cu}$		0.35
Reduction factor $r_{304}$		0.75

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 1500 Hz
Hysteresis	$H$	typ. 3 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 100 mA
Off-state current	$I_r$	0 ... 0.5 mA typ.
No-load supply current	$I_0$	$\leq 15$ mA
Indication of the switching state		LED, yellow

#### 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	0.14 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	13.5 g

#### 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.