



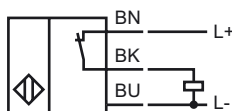
### Model Number

NBB0,8-F141-E3

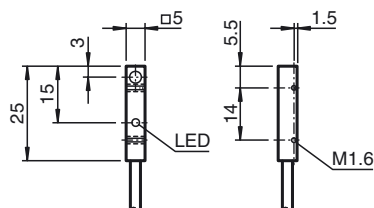
### Features

- Basic series
- 0.8 mm flush
- 3-wire DC
- Metal housing

### Connection



### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	NC
Rated operating distance	$s_n$	0.8 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	$s_a$	0 ... 0.648 mm
Actuating element	structural steel, e. g. 1.0037, SR235JR (formerly St37-2) 5 mm x 5 mm x 1 mm	
Reduction factor $r_{Al}$	0.6	
Reduction factor $r_{Cu}$	0.45	
Reduction factor $r_{304}$	0.85	
Reduction factor $r_{Brass}$	0.6	

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 2500 Hz
Hysteresis	$H$	0.01 ... 0.1
Reverse polarity protected	reverse polarity protected	
Short-circuit protection	pulsing	
Overload resistance	yes	
Wire breakage protection	yes	
Inductive overvoltage protection	yes	
Surge suppression	yes	
Ripple	≤ 10 %	
Voltage drop	$U_d$	≤ 1.5 V
Repeat accuracy	0.01 mm	
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA
No-load supply current	$I_0$	≤ 5 mA
Indication of the switching state	LED, yellow	

#### Functional safety related parameters

MTTF <sub>d</sub>	1354 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

#### Ambient conditions

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

#### Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.14 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	POM
Protection degree	IP67
Mass	40 g

#### Compliance with standards and directives

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