



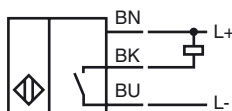
Model Number

NBB0,8-F141-E0

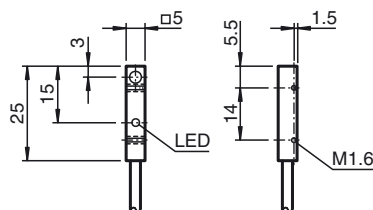
Features

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

Connection



Dimensions



Technical Data

General specifications

Switching element function	NPN	NO
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 ... 10000 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	$\leq 10 \%$	
Voltage drop	U_d	$\leq 1.5 \text{ V}$
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	$\leq 5 \text{ mA}$
Indication of the switching state	LED, yellow	

Functional safety related parameters

MTTF _d	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 ²
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