



Model Number

NBB0,8-F141-E0

Features

- Basic series
- 0.8 mm flush
- 3-wire DC
- Extremely high switching frequency
- Metal housing
- Increased immunity

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		mild 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 protection		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	R	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
Time delay before availability	t_v	≤ 1 ms
Switching state indicator		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)

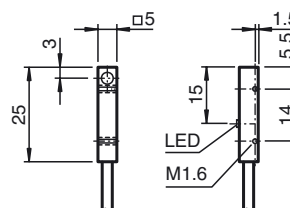
Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.14 mm ²
Housing material	brass, nickel-plated
Sensing face	POM
Degree of protection	IP67
Mass	40 g

Compliance with standards and directives

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

Dimensions



Electrical Connection

