



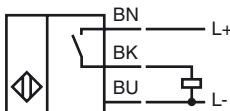
Model Number

NBB2-F29-E2-1M

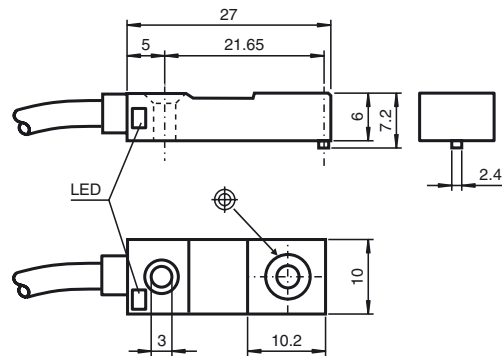
Features

- 2 mm flush
- 2-wire DC

Connection



Dimensions



Technical Data

General specifications

Switching element function	PNP, NO
Rated operating distance	s_n 2 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 1.62 mm
Reduction factor r_{Al}	0.4
Reduction factor r_{Cu}	0.3
Reduction factor r_{304}	0.7

Nominal ratings

Operating voltage	U_B 4.75 ... 30 V DC
Switching frequency	f 0 ... 1000 Hz
Hysteresis	H typ. 5 %
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d \leq 2 V
Operating current	I_L 0 ... 100 mA
Off-state current	I_r 0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 \leq 15 mA
Indication of the switching state	LED, yellow

Functional safety related parameters

MTTF _d	1680 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	cable PVC, 1 m
Core cross-section	0.14 mm ²
Housing material	Ryton R4
Sensing face	Ryton R4
Protection degree	IP67

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.