

Model Number

NBB2-F29-A2

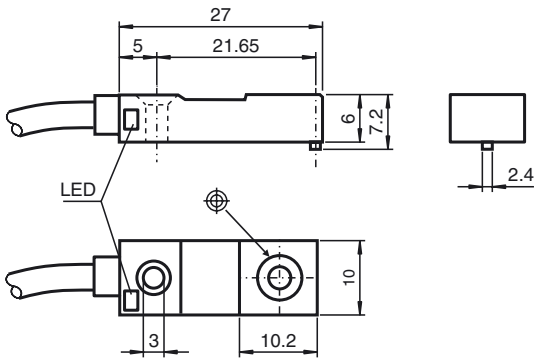
Features

- **2 mm flush**
- **4-wire DC**

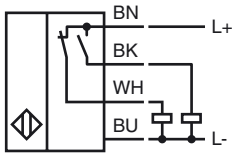
Technical Data

General specifications			
Switching element function		PNP	NO/NC
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	≤ 2 V	
Operating current	I_L	0 ... 100 mA	
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 µA at 25 °C	
No-load supply current	I_0	≤ 15 mA	
Switching state indicator		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)	
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)	
Mechanical specifications			
Connection type		cable PVC , 2 m	
Core cross-section		0.14 mm^2	
Housing material		Ryton R4	
Sensing face		Ryton R4	
Degree of protection		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		CCC approval / marking not required for products rated ≤36 V	

Dimensions



Electrical Connection



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