



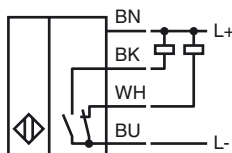
**Model Number**

NBB4-F1-A0-Y218693

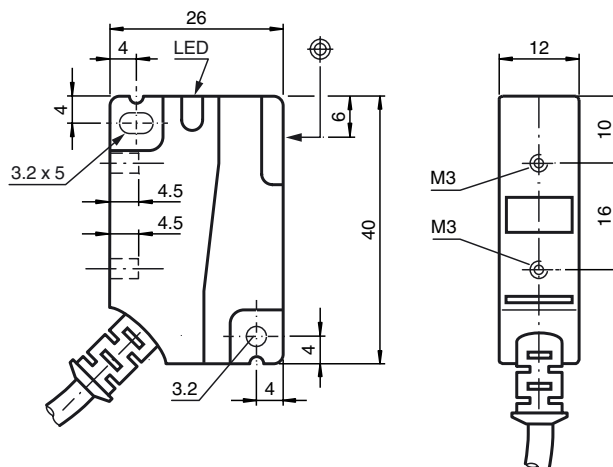
**Features**

- 4 mm flush
- 4-wire DC

**Connection**



**Dimensions**



**Technical Data**

General specifications			
Switching element function		NPN	NO/NC
Rated operating distance	$s_n$	4 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 3.24 mm	
Reduction factor $r_{Al}$		0.4	
Reduction factor $r_{Cu}$		0.45	
Reduction factor $r_{304}$		0.8	
Reduction factor $r_{Brass}$		0.55	
Nominal ratings			
Operating voltage	$U_B$	10 ... 30 V	
Switching frequency	$f$	0 ... 1400 Hz	
Hysteresis	$H$	typ. 5%	
Reverse polarity protected		reverse polarity protected	
Short-circuit protection		pulsing	
Voltage drop	$U_d$	$\leq 2.5$ V	
Rated insulation voltage	$U_{BIS}$	60 V	
Operating current	$I_L$	0 ... 250 mA	
Off-state current	$I_r$	0 ... 0.01 mA typ. 0.1 $\mu$ A at 25 °C	
No-load supply current	$I_0$	$\leq 15$ mA	
Indication of the switching state		LED, yellow	
Ambient conditions			
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)	
Mechanical specifications			
Connection type		cable PVC , 2 m	
Core cross-section		0.5 mm <sup>2</sup>	
Housing material		PA	
Sensing face		PA	
Protection degree		IP67	
Tightening torque, fastening screws		Threading M3 max: 1.1 Nm	
Compliance with standards and directives			
Standard conformity			
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates			
Protection class		II	
Rated insulation voltage	$U_i$	60 V	
Design-impulse-voltage withstand	$U_{imp}$	800 V	
UL approval		cULus Listed, General Purpose	
CSA approval		cCSAus Listed, General Purpose	

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