



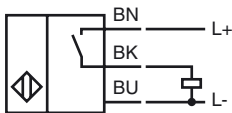
**Model Number**

**NBB4-F1-E2-Y218698**

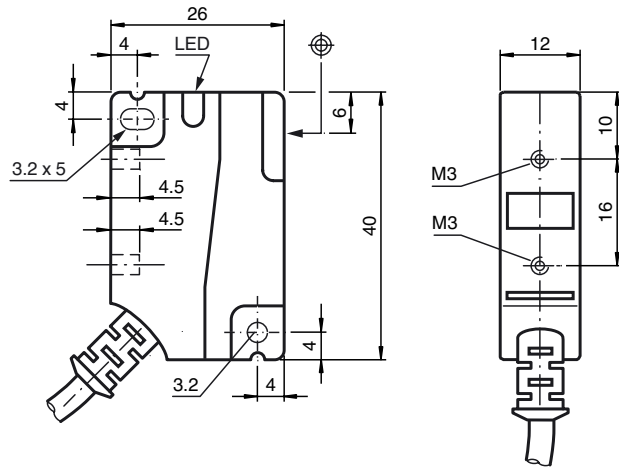
**Features**

- 4 mm flush
- 3-wire DC

**Connection**



**Dimensions**



**Technical Data**

**General specifications**

Switching element function	PNP	NO
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)
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**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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