

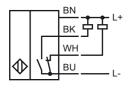
## **Model Number**

## NBN4-F29-A0

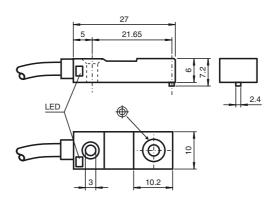
## **Features**

- · 4 mm not embeddable
- 4-wire DC

### Connection



## **Dimensions**



# **Technical Data**

General specifications		
Switching element function		NPN NO/NC
Rated operating distance	s <sub>n</sub>	4 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	sa	0 3.24 mm
Reduction factor r <sub>Al</sub>		0.2
Reduction factor r <sub>Cu</sub>		0.15
Reduction factor r <sub>303</sub>		0.7
Nominal ratings		

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	Operating voltage	U <sub>B</sub>	4.75 30 V DC
	Switching frequency	f	0 1000 Hz
	Hysteresis	Н	typ. 5 %
	Reverse polarity protected		reverse polarity protected
	Short-circuit protection		pulsing
	Voltage drop	U <sub>d</sub>	≤2 V
	Operating current	IL .	0 100 mA
	Off-state current	l,	0 0.5 mA typ. 0.1 μA at 25 °C

No-load supply current
Indication of the switching state ≤ 15 mA l<sub>0</sub> LED, yellow Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1680 a 20 a Diagnostic Coverage (DC) Ambient conditions

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

Mechanical specifications cable PVC , 2 m  $0.14~\text{mm}^2$ Connection type Core cross-section PPS Housing material PPS Sensing face Protection degree

Compliance with standards and directives

Standard conformity EN 60947-5-2:2007 Standards 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 ≤36 V do not bear a CCC marking because they do not require approval.

IP67