



Model Number

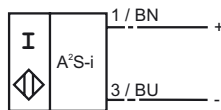
NBB6-F-B3B-Y190766

Features

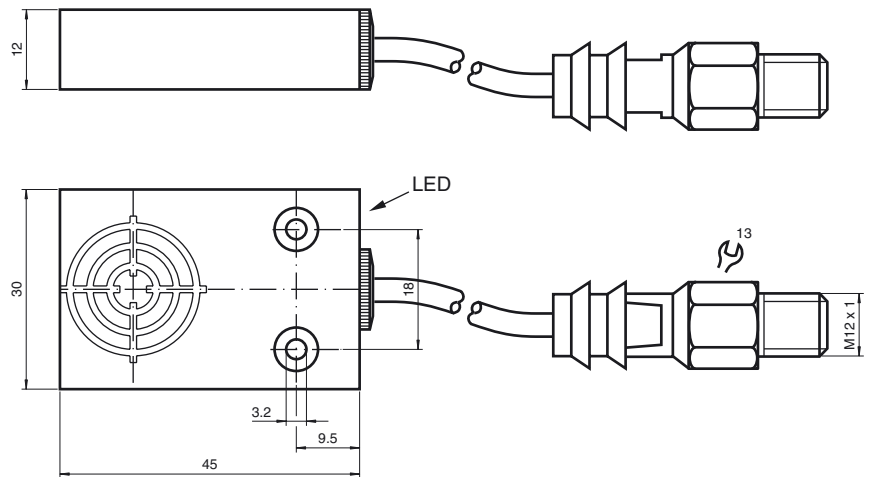
- Basic series
- 6 mm embeddable
- NO/NC selectable
- Protection degree IP67
- Oscillator monitoring

Connection

B3B



Dimensions



Technical Data

General specifications

Switching element function		NO/NC programmable
Rated operating distance	s_n	6 mm
Installation		embeddable
Output polarity		AS-Interface
Assured operating distance	s_a	0 ... 5.67 mm
Reduction factor r_{Al}		0.28
Reduction factor r_{Cu}		0.25
Reduction factor r_{V2A}		0.75

Nominal ratings

Operating voltage	U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency	f	≥ 500 (P3=0), ≥ 100 (P3=1)
Hysteresis	H	typ. 5 %
Operating current	I_L	20 mA

Indicators/operating means

LED POWER	AS-Interface voltage; LED green
LED IN	switching state (input); LED yellow
LED OUT	Dual LED yellow/red yellow: switching state red: error mode

Electrical specifications

Rated operational voltage	U_e	26.5 ... 31.6 V from AS-Interface
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Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	Cable connector M12 x 1, PVC, 500 mm
Core cross-section	0.34 mm ²
Housing material	PBT
Protection degree	IP67
Mass	90 g

Compliance with standards and directives

Standard conformity	
Electromagnetic compatibility	EN 50295:1999-10
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

Programming instructions

Address 00 preset, alterable via
Busmaster or
programming units

IO-code 0
ID-code A
ID1-code 7
ID2-code E

Data bit

Bit	Function
D0	switching state
D1	not used
D2	oscillator monitoring
D3	not used

Parameterbit

Bit	Function
P0	not used
P1	switching element function NO* / NC
P2	not used
P3	Pulse extension P3 = 1 : 10 ms* P3 = 0 : Without

* Standard setting

Fault mode

- No communication
Red LED On
Green LED On
- Address 0 set
Red LED On
Green LED flashes

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