



Model Number

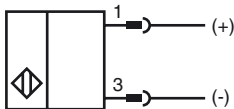
NBB8-18GM60-B3B-V1

AS-Interface

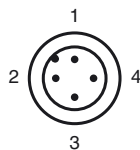
Features

- 8 mm embeddable
- Cylindrical
- A/B slave with extended addressing possibility for up to 62 slaves
- NO/NC selectable
- On/Off delay (disconnectable)

Connection



Pinout



Accessories

BF 18

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop

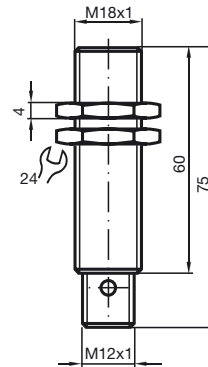
V1-G-BK0,3M-PUR-U-V1-G

Connection cable, M12 to M12, PUR cable, 4-pin

V1-G-BK1M-PUR-U-V1-G

Connection cable, M12 to M12, PUR cable, 4-pin

Dimensions



Technical Data

General specifications

Switching element function		NO/NC programmable
Rated operating distance	s_n	8 mm
Installation		embeddable
Output polarity		AS-Interface
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.4
Reduction factor r_{303}		0.7
Reduction factor r_{Brass}		0.5
Slave type		A/B slave
AS-Interface specification		V3.0
Required master specification		≥ V2.1

Nominal ratings

Operating voltage	U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency	f	0 ... 200 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protected		reverse polarity protected
No-load supply current	I_0	≤ 25 mA
Indication of the switching state		dual-LED, yellow
Fault indication		dual-LED, red

Functional safety related parameters

MTTF _d		926 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		Device connector M12 x 1, 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Protection degree		IP67

Compliance with standards and directives

Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 50295:1999

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.

Programming Instructions

Adress 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	-
D2	-
D3	-

Parameter bit

Bit	Function
P0	ON / Off delay activated* / deactivated
P1	Switching element function NO* / NC
P2	not used
P3	not used

*Standard setting

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