



Model Number

NBB5-18GM40-E2-V1

Features

- Basic series
- 5 mm flush

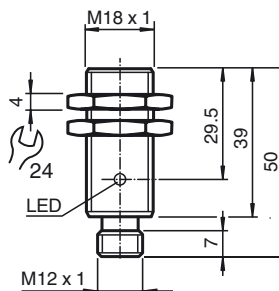
Accessories

- BF 18**
Mounting flange, 18 mm
- V1-W**
Female connector, M12, 4-pin, field attachable
- V1-G**
Female connector, M12, 4-pin, field attachable
- V1-G-2M-PUR**
Female cordset, M12, 4-pin, PUR cable
- V1-W-2M-PUR**
Female cordset, M12, 4-pin, PUR cable
- EXG-18**
Quick mounting bracket with dead stop

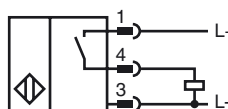
Technical Data

General specifications	
Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 5 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 4.05 mm
Reduction factor r_{AI}	0.3
Reduction factor r_{CU}	0.25
Reduction factor r_{304}	0.7
Output type	3-wire
Nominal ratings	
Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 1000 Hz
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d \leq 3 V
Operating current	I_L 0 ... 100 mA
Off-state current	I_r 0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 \leq 15 mA
Switching state indicator	LED, yellow
Functional safety related parameters	
MTTF _d	2010 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated \leq 36 V

Dimensions

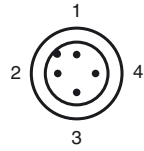


Electrical Connection



Release date: 2017-07-11 13:59 Date of issue: 2017-07-11 083419_eng.xml

Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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