



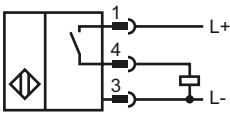
Model Number

NRB12-18GM40-E2-V1

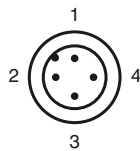
Features

- Reduction factor = 1
- 12 mm quasi-embeddable
- Magnetic field resistant

Connection



Pinout



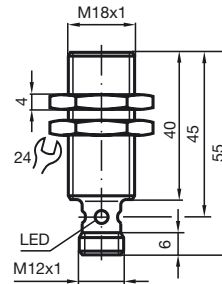
Wire colors in accordance with EN 60947-5-2

- | | |
|---|----|
| 1 | BN |
| 2 | WH |
| 3 | BU |
| 4 | BK |

Accessories

- BF 18**
Mounting flange
- V1-G**
Non pre-wired cable socket
- V1-W**
Non pre-wired cable socket
- V1-G-2M-PUR**
Cable connector
- V1-W-2M-PUR**
Cable connector

Dimensions



Technical Data

General specifications

Switching element function	PNP	Make function
Rated operating distance	s_n	12 mm
Installation		quasi embedd.
Output polarity		DC
Assured operating distance	s_a	0 ... 9.72 mm
Reduction factor r_{Al}		1
Reduction factor r_{Cu}		1
Reduction factor r_{V2A}		1
Reduction factor r_{SI37}		1

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 600 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protection		protected against reverse polarity
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 25 mA
Indication of the switching state		Multihole-LED, yellow

Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 85 °C (233 ... 358 K)

Mechanical specifications

Connection type	connector M12 x 1, 4-pin
Housing material	stainless steel 1.4305
Sensing face	Crastin (PBTB)
Protection degree	IP67

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

Release date: 2009-11-25 14:53 Date of issue: 2009-11-25 198373_ENG.xml