



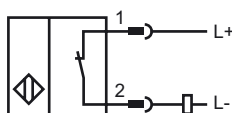
Model Number

NCB4-12GM40-Z5-V1

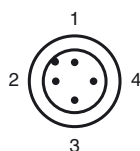
Features

- Comfort series
- 4 mm embeddable
- increased operating distance

Connection



Pinout



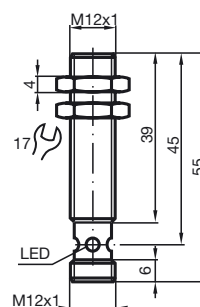
Wire colors in accordance with EN 60947-5-2

1	BN
2	WH
3	BU
4	BK

Accessories

- BF 12**
Mounting flange
- V1-W**
Non pre-wired cable socket
- V1-G-2M-PUR**
Cable connector
- V1-W-2M-PUR**
Cable connector
- EXG-12**
Mounting aid

Dimensions



Technical Data

General specifications

Switching element function		DC	Break function
Rated operating distance	s_n	4 mm	
Installation		embeddable	
Assured operating distance	s_a	0 ... 3.06 mm	
Reduction factor r_{Al}		0.49	
Reduction factor r_{Cu}		0.47	
Reduction factor r_{V2A}		0.76	

Nominal ratings

Operating voltage	U_B	3.5 ... 30 V
Switching frequency	f	0 ... 1000 Hz
Reverse polarity protection		conductive
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.5 V
Temperature drift		$\pm 15\%$
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	0.4 ... 0.6 mA typ. 0.5 mA
Indication of the switching state		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	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