



### Model Number

NBN4-12GM50-E2-V1-M

### Features

- Basic series
- 4 mm non-flush
- e1-Type approval

### Accessories

#### BF 12

Mounting flange, 12 mm

#### V1-G

Female connector, M12, 4-pin, field attachable

#### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### EXG-12

Quick mounting bracket with dead stop

#### V1-W

Female connector, M12, 4-pin, field attachable

## Technical Data

### General specifications

Switching element function		PNP	NO
Rated operating distance	$s_n$	4 mm	
Installation		non-flush	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 3.24 mm	
Reduction factor $r_{Al}$		0.5	
Reduction factor $r_{Cu}$		0.4	
Reduction factor $r_{304}$		0.8	

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 1200 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 17$ mA
Switching state indicator		Multihole-LED, yellow

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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### Mechanical specifications

Connection type	Connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

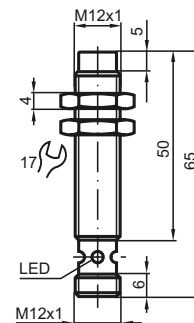
### Compliance with standards and directives

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

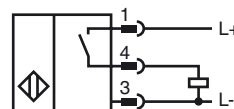
### Approvals and certificates

e1 Type approval	95/54/EC
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## Dimensions



## Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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