



### Model Number

NBN4-12GM50-E0-V1-OEL

### Features

- Basic series
- 4 mm non-flush

## Technical Data

### General specifications

Switching element function		NPN	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

### Standard conformity

Standards	IEC / EN 60947-5-2:2004
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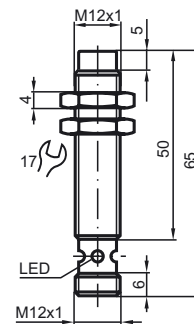
### Ambient conditions

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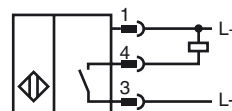
### Mechanical specifications

Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

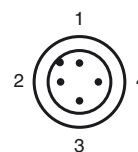
## Dimensions



## Electrical Connection



## Pinout





Wire colors in accordance with EN 60947-5-2

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