



### Model Number

NEB12-18GM50-E0

### Features

- Increased operating distance
- 12 mm quasi flush

### Accessories

#### BF 18

Mounting flange, 18 mm

## Technical Data

### General specifications

Switching element function		NPN	NO
Rated operating distance	$s_n$	12 mm	
Installation		quasi flush	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 9.72 mm	
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 36 mm x 36 mm x 1 mm	
Reduction factor $r_{Al}$		0.26	
Reduction factor $r_{Cu}$		0.2	
Reduction factor $r_{304}$		0.63	
Reduction factor $r_{Brass}$		0.33	

### Nominal ratings

#### Installation conditions

A	in steel 1.0037 (St37): 4 mm
B	14 mm
C	36 mm
F	36 mm

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	0.12 ... 1.8 mm
Reverse polarity protection		yes
Short-circuit protection		pulsing
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	$U_d$	$\leq 2$ V
Repeat accuracy	$R$	0.6 mm
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	$\leq 10$ $\mu$ A
No-load supply current	$I_0$	$\leq 11$ mA
Time delay before availability	$t_v$	$\leq 50$ ms
Switching state indicator		LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>	1940 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

### Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

### Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Mass	100 g

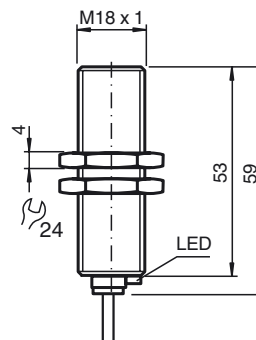
### Compliance with standards and directives

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

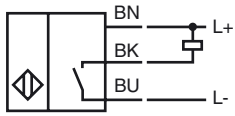
### Approvals and certificates

EAC conformity	TR CU 020/2011
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq 36$ V

## Dimensions



Electrical Connection



Installation Conditions

