



Model Number

NEB3-F41-E3

Features

- 3-wire DC
- Metal housing
- 3 mm quasi flush

Technical Data

General specifications

Switching element function	PNP	NC
Rated operating distance	s_n	3 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	s_a	0 ... 2.4 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 9 mm x 9 mm x 1 mm
Reduction factor r_{Al}		0.35
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.7
Reduction factor r_{Brass}		0.45

Nominal ratings

Installation conditions	
B	6 mm
C	9 mm
F	16 mm
G	1 mm
Operating voltage	U_B 10 ... 30 V DC
Switching frequency	f 0 ... 1000 Hz
Hysteresis	H 2 ... 20 typ. 10 %
Reverse polarity protection	reverse polarity protected
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 0.15 mm
Operating current	I_L 0 ... 200 mA, above 50°C ≤ 150 mA
Off-state current	$I_r \leq 10$ μ A
No-load supply current	$I_0 \leq 15$ mA
Time delay before availability	$t_v \leq 50$ ms
Switching state indicator	LED, yellow

Ambient conditions

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

Mechanical specifications

Connection type	cable PVC, 2 m
Core cross-section	0.14 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Mass	50 g

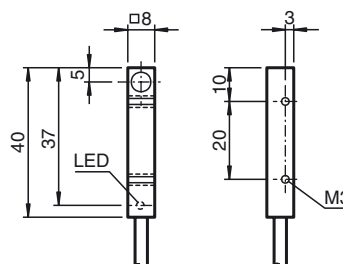
Compliance with standards and directives

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

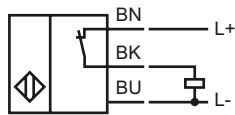
Approvals and certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Dimensions



Electrical Connection



Installation Conditions

