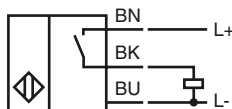
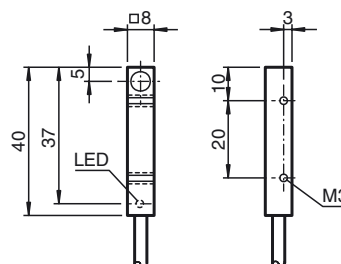


**Model Number**

NEB3-F41-E2

**Features**

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

**Connection****Dimensions****Technical Data****General specifications**

Switching element function	PNP	NO
Rated operating distance	$s_n$	3 mm
Installation		virtually 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**

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 1000 Hz
Hysteresis	$H$	0.03 ... 0.3
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	$U_d$	≤ 2 V
Repeat accuracy		0.15 mm
Operating current	$I_L$	0 ... 200 mA, above 50°C ≤ 150 mA
Off-state current	$I_r$	≤ 10 μA
No-load supply current	$I_0$	≤ 15 mA
Time delay before availability	$t_v$	≤ 50 ms
Indication of the switching state		LED, yellow

**Functional safety related parameters**

MTTF <sub>d</sub>	2134 a
Mission Time (T <sub>M</sub> )	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 PVC, 2 m
Core cross-section	0.14 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	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	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.