





Model Number

NEB12-18GM50-E3-V1

Features

- Increased operating distance
- · 12 mm quasi flush

Accessories

BF 18

Mounting flange, 18 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

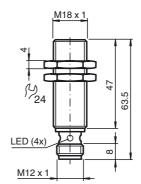
EXG-18

Quick mounting bracket with dead stop

General specifications			
Switching element function		PNP	NC
Rated operating distance	Sn	12 mm	
Installation		quasi flush	
Output polarity		DC	
Assured operating distance	sa	0 9.72 mm	
Actuating element	-	mild steel, e. g. 1.0037, SR235JR (formerly St37-2)	
		36 mm x 36 n	nm 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 1.003	7 (St37): 4 mm
В		14 mm	
С		36 mm	
F		36 mm	
Operating voltage	U_{R}	10 30 V	
Switching frequency	f	0 500 Hz	
Hysteresis	Н	0.12 1.8 m	nm
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	≤ 2 V	
Repeat accuracy	R	0.6 mm	
Operating current	IL	0 200 mA	
Off-state current	l _r	≤ 10 μA	
No-load supply current	l ₀	≤ 11 mA	
Time delay before availability	t _v	≤ 50 ms	
Switching state indicator		LED, yellow	
Functional safety related parameters			
MTTF _d		2650 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Ambient conditions			
Ambient temperature			-13 185 °F)
Storage temperature		-40 85 °C (-40 185 °F)
Mechanical specifications			
Connection type		Connector M	12 x 1 , 3-pin
Housing material		brass, nickel-	plated
Sensing face		PBT	
Degree of protection		IP67	
Mass		50 g	
Compliance with standards and d	irective	S	
Standard conformity			
Standards		EN 60947-5-2	
		IEC 60947-5-	2:2007
Approvals and certificates			
UL approval		cULus Listed	, General Purpose
CCC approval			ol / marking not required for products rated <36 V

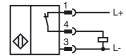
CCC approval **Dimensions**

Technical Data



CCC approval / marking not required for products rated ≤36 V

Electrical Connection



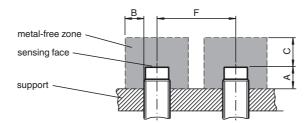
Pinout



Wire colors in accordance with EN 60947-5-2

1 BN (brown)
3 BU (blue)
4 BK (black)

Installation Conditions



FPEPPERL+FUCHS