



Model Number

NEB6-12GM50-E2-V1

Features

- Increased operating distance
- 6 mm quasi flush

Accessories

BF 12

Mounting flange, 12 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

Technical Data

General specifications

Switching element function		PNP	NO
Rated operating distance	s_n	6 mm	
Installation		quasi flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 4.8 mm	
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2)	
		18 mm x 18 mm x 1 mm	
Reduction factor r_{Al}		0.28	
Reduction factor r_{Cu}		0.2	
Reduction factor r_{304}		0.7	
Reduction factor r_{Brass}		0.35	

Nominal ratings

Installation conditions

A	in steel 1.0037 (St37): 2.4 mm
	in other metal: 1.2 mm

B	12 mm
C	18 mm
F	24 mm

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 800 Hz
Hysteresis	H	0.06 ... 1.2 mm

Reverse polarity protection	yes
Short-circuit protection	pulsing
Overload resistance	yes

Wire breakage protection	yes
Surge suppression	yes

Ripple	10 %	
Voltage drop	U_d	≤ 2 V

Repeat accuracy	R	0.3 mm
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Operating current	I_L	0 ... 200 mA, above 70°C ≤ 150 mA
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Off-state current	I_r	≤ 10 μ A
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No-load supply current	I_0	≤ 15 mA
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Time delay before availability	t_v	≤ 50 ms
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Switching state indicator	LED, yellow
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Functional safety related parameters

MTTF _d	1740 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	Connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Mass	20 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 ≤ 36 V

Dimensions



