





Model Number

NEB6-12GM50-E3-V1

Features

- Increased operating distance
- 6 mm 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

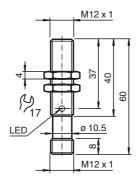
V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

To a local and Dodge			
Technical Data			
General specifications			
Switching element function		PNP NC	
Rated operating distance	Sn	6 mm	
Installation	-11	quasi flush	
Output polarity		DC	
Assured operating distance	Sa	0 4.8 mm	
Actuating element	ű	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			
Α		in steel 1.0037 (St37): 2.4 mm in other metal: 1.2 mm	
В		12 mm	
С		18 mm	
F		24 mm	
Operating voltage	U _B	10 30 V DC	
Switching frequency	f	0 800 Hz	
Hysteresis	Н	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		0.3 mm	
Operating current	ΙL	0 200 mA , above 70°C ≤ 150 mA	
Off-state current	l _r	≤ 10 µA	
No-load supply current	I ₀	≤ 15 mA	
Time delay before availability	t_v	≤ 50 ms	
Switching state indication		LED, yellow	
Functional safety related paramet	ers		
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	
Protection degree		IP67	
Mass		20 g	
Compliance with standards and d	irective	s	
Standard conformity			
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates		120 00077 3 2.2007	

CCC approval **Dimensions**

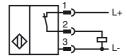
UL approval



cULus Listed, General Purpose

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
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Installation Conditions

