



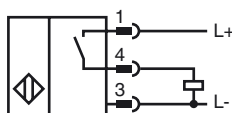
Model Number

NBN4-12GM60-E2-T-V1

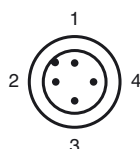
Features

- 4 mm not embeddable
- Extended temperature range

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

BF 12

Mounting flange, 12 mm

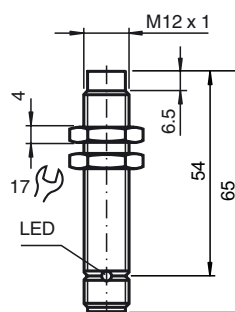
V1-W

4-pin, M12 female field-attachable connector

V1-G

4-pin, M12 female field-attachable connector

Dimensions



Technical Data

General specifications

Switching element function	PNP	NO
Rated operating distance	s_n	4 mm
Installation	not embeddable	
Output polarity	DC	
Assured operating distance	s_a	0 ... 3.24 mm
Actuating element	structural steel, e. g. 1.0037, SR235JR (formerly St37-2) 12 mm x 12 mm x 1 mm	
Reduction factor r_{Al}	0.5	
Reduction factor r_{Cu}	0.4	
Reduction factor r_{304}	0.8	
Reduction factor r_{Brass}	0.5	

Nominal ratings

Installation conditions		
A	8 mm	
B	9 mm	
C	8 mm	
F	27 mm	
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 800 Hz
Hysteresis	H	0.03 ... 0.88 mm
Reverse polarity protected	yes	
Short-circuit protection	yes	
Overload resistance	yes	
Wire breakage protection	yes	
Inductive overvoltage protection	yes	
Surge suppression	yes	
Ripple	10 %	
Voltage drop	U_d	≤ 2.5 V
Repeat accuracy	0.2 mm	
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 0.01 mA
No-load supply current	I_0	≤ 7 mA
Indication of the switching state	all direction LED, yellow	

Functional safety related parameters

Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °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 directives

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

Approvals and certificates

CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.
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