

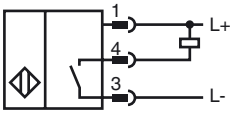
Model Number

NMB2-12GM65-E0-FE-V1

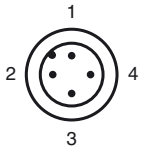
Features

- **Stainless steel sensing face**
- **Sensing range 2 mm**
- **3-wire DC**
- **Ferrous targets**

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

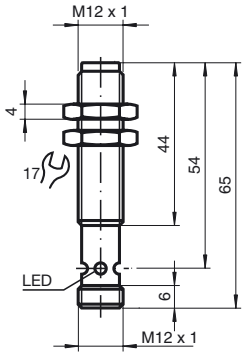
V1-G-OR2M-POC
Female cordset, M12, 4-pin, TPE cable, welding-bead resistant

V1-W-2M-PUR
Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR
Cable socket, M12, 4-pin, PUR cable

AB-12
Mounting aid

Dimensions



Technical Data

General specifications		
Switching element function		NPN NO
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actuating element		Ferrous targets
Reduction factor r_{Al}		0
Reduction factor r_{Cu}		0
Reduction factor r_{304}		0.6 - 0.8
Reduction factor r_{316Ti}		0.1
Reduction factor r_{St37}		1
Reduction factor r_{Brass}		0
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	100 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V DC
Operating current	I_L	≤ 200 mA
Current consumption		< 14 mA
Off-state current	I_r	≤ 10 µA
Functional safety related parameters		
$MTTF_d$		990 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operating display		4-way dual LED Green: power Yellow: output
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Connection type		V1 connector (M12 x 1), 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		Stainless steel 1.4305 / AISI 303
Protection degree		IP67 / IP68 / IP69K - cordset dependent according to cable Standard
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
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.

Release date: 2012-05-16 11:16 Date of issue: 2012-05-16 908426_eng.xml

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