



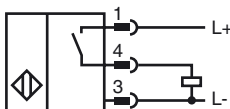
**Model Number**

NMB2-12GM65-E2-C-FE-V1

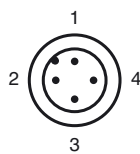
**Features**

- Stainless steel sensing face
- Sensing range 2 mm
- 3-wire DC
- Weld field immune
- Weld slag resistant coating
- 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)

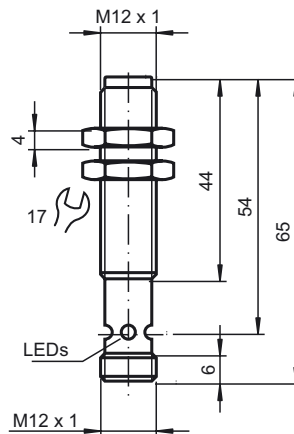
**Accessories**

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

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

**AB-12**  
Mounting aid

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	PNP	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 $r_{St37}$		1
Reduction factor $r_{Brass}$		0

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 5 Hz
Hysteresis	$H$	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2$ V
Operating current	$I_L$	0 ... 200 mA
Current consumption		$< 14$ mA
Off-state current	$I_r$	$\leq 10$ $\mu$ A
Operating voltage display		LED, green
Switching state indication		Multihole-LED, yellow
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT

**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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**Mechanical specifications**

Connection type	V1 connector (M12 x 1), 4-pin
Housing material	Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face	Xylan coated - Stainless steel 1.4305 / AISI 303
Protection degree	IP67 / IP68 / IP69K - cordset dependent according to cable specification

**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 $\leq 36$ V do not bear a CCC marking because they do not require approval.

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