

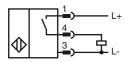
Model Number

NBB5-18GM50-E2-C3-V1

Features

- 5 mm flush
- 3-wire DC
- Ceramic coated sensing face
- Slag repellant coatings

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

Quick mounting bracket with dead stop

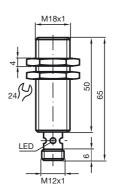
V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

V1-W-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

Dimensions



Technical Data

General specifications				
Switching element function		PNP	NO	
Rated operating distance	s _n	5 mm		
Installation		flush		
Output polarity		DC		
Assured operating distance	sa	0 4.05	5 mm	
Reduction factor r _{Al}		0.3		
Reduction factor r _{Cu}		0.2		
Reduction factor r ₃₀₄		0.6		

Nominal ratings U_B 10 ... 30 V DC Operating voltage Switching frequency

0 ... 800 Hz Hysteresis Reverse polarity protection Н typ. 5 % reverse polarity protected

Short-circuit protection pulsing Voltage drop ≤ 3 V Operating current Off-state current

0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C No-load supply current ≤ 15 mA Operating voltage display LED, green Multihole-LED, yellow

Switching state indication Mag. Field strength, AC fields Mag. Field strength, DC fields 150 mT

Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 1560 a 20 a

Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin

Housing material Brass, PTFE coated Sensing face Ceramic coated Protection degree

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards 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.