







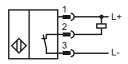
Model Number

NBB4-12GM50-E1-V1

Features

· Increased operating distance

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

Quick mounting bracket with dead stop

V1-G

4-pin, M12 female field-attachable connector

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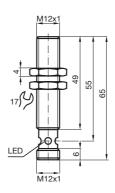
V1-W 4-pin, M12 female field-attachable connector

V1-G-2M-PUR

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

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General specifications			
Switching element function		NPN	NC
Rated operating distance	s _n	4 mm	
Installation		embeddable	e
Output polarity		DC	
Assured operating distance	sa	0 3.24 mr	m
Reduction factor r _{Al}		0.39	
Reduction factor r _{Cu}		0.35	
Reduction factor r ₃₀₃		0.75	
Reduction factor r _{Brass}		0.49	

Nominal ratings Operating voltage

Operating voltage	U_{B}	10 30 V
Switching frequency	f	0 800 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	IL.	0 200 mA
Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Indication of the switching state		Multihole-LED, yellow

Indication of the switching state

anotional salety lelated parameters	
MTTF _d	1600 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 70 °C (-13 158 °F)
84 I I I IEI 41	

Mechanical specifications

Connection type	connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT

Protection degree General information

Scope of delivery 2 self locking nuts in scope of delivery

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.