



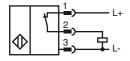




Model Number

NBB5-18GM40-E3-V1

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

BN	(brown)
WH	(white)
BU	(blue)
BK	(black)
	WH BU

Accessories

BF 18

Mounting flange, 18 mm

V1-G

4-pin, M12 female field-attachable connector

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

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

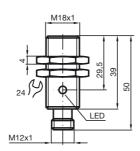
V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

EXG-18

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications			
Switching element function		PNP	NC
Rated operating distance	s _n	5 mm	
Installation		embeddab	le
Assured operating distance	e s _a	0 4.05 n	nm
Reduction factor r _{Al}		0.3	
Reduction factor r _{Cu}		0.3	
Reduction factor r ₃₀₄		0.7	
Reduction factor r _{St37}			

Nominal ratings Operating voltage

 U_B Switching frequency 0 ... 800 Hz Reverse polarity protected Short-circuit protection reverse polarity protected pulsing Voltage drop . ≤3 V Uд Operating current 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μ A at 25 °C ≤ 20 mA

10 ... 30 V

Off-state current No-load supply current Indication of the switching state LED, yellow

Functional safety related parameters MTTF_d
Mission Time (T_M) 1880 a 20 a Diagnostic Coverage (DC)

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Mechanical specifications Connection type Device connector M12 x 1, 4-pin

Housing material brass, nickel-plated Sensing face Protection degree PRT IP67

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 cCSAus Listed, General Purpose CSA approval CCC approval Products with a maximum operating voltage of ≤36 V do not bear a

CCC marking because they do not require approval.