







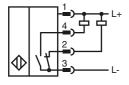
Model Number

NBB2-12GM60-A0-V1

Features

· 2 mm embeddable

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

BF 12

Mounting flange, 12 mm

Quick mounting bracket with dead stop

V1-G

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

4-pin, M12 female field-attachable connector

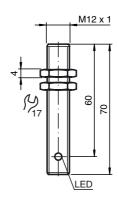
www.pepperl-fuchs.com

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 NO/NC
Rated operating distance	s _n	2 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Reduction factor r _{Al}		0.25
Reduction factor r _{Cu}		0.15
Reduction factor r ₃₀₄		0.66
Nominal ratings		
Operating voltage	U_{R}	10 30 V

Switching frequency 0 ... 1000 Hz Hysteresis Reverse polarity protected typ. 5% reverse polarity protected

Short-circuit protection pulsing 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 15 mA Voltage drop U_d Operating current Off-state current

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

Functional safety related parameters

 $MTTF_d$ 3220 a Mission Time (T_M)
Diagnostic Coverage (DC) 20 a 0 %

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 PBT

Protection degree General information

Scope of delivery 2 self locking nuts in scope of delivery

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.

Release date: