







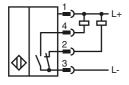
Model Number

NBB10-30GM60-A0-V1

Features

• 10 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 30

Mounting flange, 30 mm

EXG-30

Quick mounting bracket with dead stop V1-G

4-pin, M12 female field-attachable connector

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

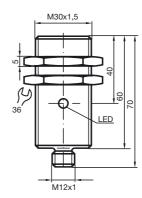
www.pepperl-fuchs.com

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

1	i ecililicai Data		
	General specifications		
	Switching element function		NPN NO/NC
	Rated operating distance	s _n	10 mm
	Installation		embeddable
	Output polarity		DC
	Assured operating distance	sa	0 8.1 mm
	Reduction factor r _{Al}		0.25
	Reduction factor r _{Cu}		0.15
	Reduction factor r ₃₀₃		0.66
	Nominal ratings		
	Operating voltage	U _B	10 30 V
	Switching frequency	f	0 200 Hz
	Hysteresis	Н	typ. 5%
	Reverse polarity protected		reverse polarity protected

Short-circuit protection pulsing Voltage drop ≤ 3 V 0 ... 200 mA Operating current 0 ... 0.5 mA typ. 0.1 μ A at 25 °C Off-state current

No-load supply current ≤ 20 mA Indication of the switching state LED, yellow

Functional safety related parameters

1050 a $MTTF_d$ 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 PBT Sensing face IP67 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 cCSAus Listed, General Purpose CSA approval

CCC approval Products with a maximum operating voltage of $\leq 36 \text{ V}$ do not bear a CCC marking because they do not require approval.