









Model Number

NBN8-12GM50-A0-V1

Features

- 8 mm non-flush
- · Increased operating distance

Accessories

BF 12

Mounting flange, 12 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

	Switching element function		NPN	NO/NC		
	Rated operating distance	s _n	8 mm			
	Installation		non-flush			
	Output polarity		DC			
	Assured operating distance	sa	0 6.48 mm	n		
	Reduction factor r _{AI}		0.39			
	Reduction factor r _{Cu}		0.35			
	Reduction factor r ₃₀₄		0.7			
N	Nominal ratings					

Operating voltage U_B 10 ... 30 V 0 ... 1500 Hz Switching frequency Н typ. 5% Hysteresis

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop U_d

≤ 3 V 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C Operating current Off-state current Switching state indicator Multihole-LED, yellow

Functional safety related parameters

MTTF_d Mission Time (T_M) 1702 a 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions

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

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material brass, nickel-plated

PBT Sensing face IP67 Degree of protection 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

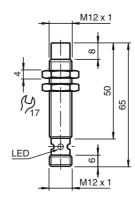
IEC 60947-5-2:2007

Approvals and certificates

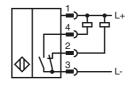
EAC conformity TR CU 020/2011 **UL** approval cULus Listed, General Purpose

CSA approval cCSAus Listed, General Purpose CCC approval CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

FPEPPERL+FUCHS