









Model Number

NBN8-12GM50-E0-V1

Features

- 8 mm non-flush
- · Increased operating distance

Accessories

BF 12

Mounting flange, 12 mm

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

Rated operating distance	s _n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	sa	0 6.48 mm
Reduction factor r _{Al}		0.39
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.7
Reduction factor r _{Brass}		0.45

NPN

NO

$\begin{tabular}{lll} \textbf{Nominal ratings} \\ \textbf{Operating voltage} & \textbf{U}_{B} & 10 \dots 30 \text{ V} \\ \textbf{Switching frequency} & \textbf{f} & 0 \dots 1500 \text{ Hz} \\ \end{tabular}$

Hysteresis H typ. 5%
Reverse polarity protection
Short-circuit protection

Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & 1702 \, a \\ \text{Mission Time } (T_M) & 20 \, a \\ \text{Diagnostic Coverage (DC)} & 0 \, \% \end{array}$

Ambient conditions

Ambient temperature $-25 \dots 70 \,^{\circ}\text{C} \, (-13 \dots 158 \,^{\circ}\text{F})$

Mechanical specifications

Connection type Connector M12 x 1 , 4-pin
Housing material brass, nickel-plated
Sensing face PBT
Degree of protection IP67

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

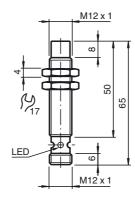
Approvals and certificates

EAC conformity TR CU 020/2011

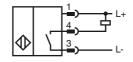
UL approval cULus Listed, General Purpose
CSA approval cCSAus Listed, General Purpose

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)