



Model Number

NBN3-8GM30-E0-V1

Features

- **Basic series**
- **3 mm not embeddable**

Accessories

BF 8

Mounting flange, 8 mm

V1-G

Field attachable female cordset

V1-W

Field attachable female cordset

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching element function		NPN	NO
Rated operating distance	s_n	3 mm	
Installation		not embeddable	
Output polarity		DC	

Nominal ratings

Operating voltage	U_B	10 ... 30 V	
Switching frequency	f	0 ... 2000 Hz	
Reverse polarity protected		reverse polarity protected	
Short-circuit protection		pulsing	
Voltage drop	U_d	≤ 2 V	
Operating current	I_L	0 ... 100 mA	
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C	
No-load supply current	I_0	≤ 15 mA	
Indication of the switching state		LED, yellow	

Functional safety related parameters

MTTF _d	4020 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

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

Connection type	Device connector M12 x 1 , 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

Compliance with standards and directives

Standard conformity	
Standards	NEMA ICS5-2000

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.