







Model Number

NBN12-18GM50-E2-V1

Features

- **Basic series**
- 12 mm non-flush
- Increased operating distance

Accessories

BF 18

Mounting flange, 18 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

	Cwitching clement fanction						
	Rated operating distance	s _n	12 mm				
	Installation		non-flush				
	Output polarity		DC				
	Assured operating distance	s _a		(-25 70 °C (-13)25 °C (-40			
	Reduction factor r _{Al}		0.5				
	Reduction factor r _{Cu}		0.4				
	Reduction factor r ₃₀₄		0.7				
ı	Nominal ratings						

10 ... 30 V 0 ... 200 Hz Operating voltage U_{B} Switching frequency Hysteresis typ. 5% Reverse polarity protection reverse polarity protected

Short-circuit protection Voltage drop pulsing ≤3 V Operating current 0 ... 200 mA No-load supply current ≤ 10 mA Multihole-LED, yellow Switching state indicator

Functional safety related parameters

MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) 1570 a 20 a 0 %

Ambient conditions

Ambient temperature -40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

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

Compliance with standards and directives

Standard conformity

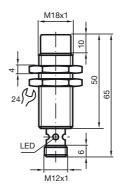
EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

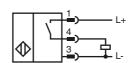
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval 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