









Model Number

NBN40-L2-A2-C-V1

Features

- Sensor head bidirectional and rotatable
- 40 mm non-flush
- 4-wire DC
- **Weld Immune**
- **Quick mounting bracket**
- 4-way LED indicator

Accessories

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

MHW 01

Modular mounting bracket

MH 02-L Mounting aid

Technical Data

General specifications

	Switching element function		PNP	NO/NC
	Rated operating distance	s _n	40 mm	
	Installation		non-flush	
	Output polarity		DC	
	Assured operating distance	sa	0 32.4 mm	n
	Reduction factor r _{AI}		0.31	
	Reduction factor r _{Cu}		0.3	
	Reduction factor r ₃₀₄		0.74	
	Reduction factor r _{Brass}		0.31	
N	lominal ratings			

10 ... 30 V DC 0 ... 5 Hz Operating voltage UB Switching frequency Hysteresis Н typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

. ≤3 V Voltage drop U_{d} Operating current 0 ... 200 mA Off-state current 0 ... 0.5 mA No-load supply current Time delay before availability ≤ 20 mA 300 ms Operating voltage indicator LED, green Switching state indicator LED, yellow

Functional safety related parameters

MTTF_d Mission Time (T_M) 1170 a 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions

-25 ... 85 °C (-13 ... 185 °F) -25 ... 85 °C (-13 ... 185 °F) Ambient temperature Storage temperature

Mechanical specifications

Connection type Connector M12 x 1, 4-pin PA Housing material Sensing face

Degree of protection IP69K Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007

IEC 60947-5-2:2007

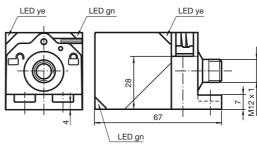
Approvals and certificates

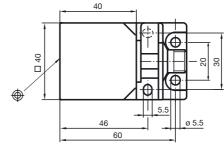
Protection class Rated insulation voltage 253 V 4000 V Design-impulse-voltage withstand Uimp

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

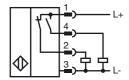
CCC approval CCC approval / marking not required for products rated ≤36 V

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)