

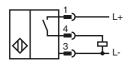
Model Number

NRN40-U1-E2-V1

Features

- 40 mm not embeddable
- Reduction factor = 1
- 4 LEDs indicator for 360° visibility
- Magnetic field resistant

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

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4-pin, M12 female field-attachable connector

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

MHW 01 Modular mounting bracket

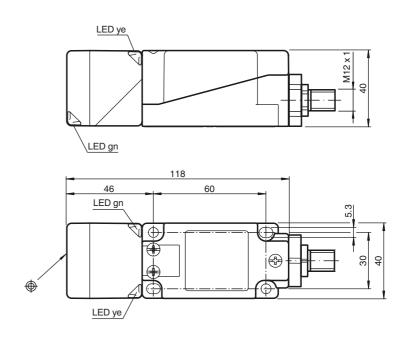
MH 04-2681F

Mounting aid for VariKont, +U1+ and +U9*

V1-G

Release date: 4-pin, M12 female field-attachable connector

Dimensions



Technical Data		
General specifications		
Switching element function		PNP NO
Rated operating distance	s _n	40 mm
Installation		not embeddable
Output polarity		switched high
Assured operating distance	sa	0 32.4 mm
Reduction factor r _{Al}		1
Reduction factor r _{Cu}		1
Reduction factor r ₃₀₃		1
Reduction factor r _{St37}		1
Nominal ratings		
Operating voltage	U_B	10 30 V
Switching frequency	f	0 100 Hz
Hysteresis	Н	2 15 %
Reverse polarity protected		reverse polarity protected
Ol t - : : t t t t		and a few and

$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Switching frequency	f	0 100 Hz
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Н	2 15 %
$\begin{array}{llllllllllllllllllllllllllllllllllll$			reverse polarity protected
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Short-circuit protection		pulsing
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Voltage drop	U _d	≤ 2.5 V
No-load supply current $I_0 \le 25 \text{ mA}$ Constant magnetic field B 200 mT Alternating magnetic field B 200 mT Operating voltage display LED, green Indication of the switching state LED, yellow	Operating current	IL.	0 200 mA
Constant magnetic field B 200 mT Alternating magnetic field B 200 mT Operating voltage display LED, green Indication of the switching state LED, yellow	Off-state current	I _r	0 0.5 mA typ. 0.01 mA
Alternating magnetic field B 200 mT Operating voltage display LED, green Indication of the switching state LED, yellow	No-load supply current	I ₀	≤ 25 mA
Operating voltage display LED, green Indication of the switching state LED, yellow	Constant magnetic field	В	200 mT
Indication of the switching state LED, yellow		В	200 mT
,,	Operating voltage display		LED, green
Functional safety related parameters	Indication of the switching state		LED, yellow
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MTTF_d
Mission Time (T_M) 1002 a 20 a

Diagnostic Coverage (DC) Ambient conditions

Ambient temperature Storage temperature

-25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F) Mechanical specifications Connection type Device connector M12 x 1, 4-pin PA/metal with epoxy powder coating PA 6 Grivory GVN-35H Housing material

Sensing face Housing base Protection degree plastic iP67 225 g Mass

Tightening torque: 1.8 Nm (housing) Tightening torque: 1.0 Nm (Screw terminal)

Compliance with standards and directives

Standard conformity

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

Approvals and certificates

Protection class 60 V Rated insulation voltage

Design-impulse-voltage with stand U_{imp} 800 V

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

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Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.