

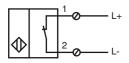
Model Number

NJ40+U4+N

Features

· 40 mm non-flush

Connection



Accessories

MHW 01

Modular mounting bracket

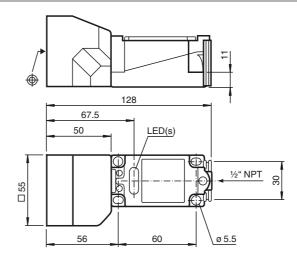
MH 04-2681F

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

MH 04-2057B

Mounting aid for VariKont and +U1+

Dimensions



Technical Data

General specifications		
Switching element function		NAMUR, NC
Rated operating distance	s _n	40 mm
Installation		non-flush
Output polarity		NAMUR
Assured operating distance	sa	0 32.4 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor rand		0.85

 $\begin{tabular}{lll} \textbf{Nominal ratings} & & & & & & & & & \\ \textbf{Nominal voltage} & & & \textbf{U}_o & & \textbf{8.2 V } (\textbf{R}_i \ approx. 1 \ k\Omega) \\ \textbf{Switching frequency} & & \textbf{f} & & \textbf{0} \ \dots \ \textbf{100 Hz} \\ \end{tabular}$

Current consumption

Measuring plate not detected ≥ 3 mA

Measuring plate detected ≤ 1 mA

Ambient conditions

Ambient temperature $-25 \dots 100 \,^{\circ}\text{C} \, (-13 \dots 212 \,^{\circ}\text{F})$

Mechanical specifications

 Connection type
 screw terminals

 Core cross-section
 ≤ 2.5 mm²

 Housing material
 PBT/metal

 Sensing face
 PBT

 Protection degree
 IP68

General information

Use in the hazardous area see instruction manuals

Category

Compliance with standards and directives

Standard conformity

NAMUR EN 60947-5-6:2000 IEC 60947-5-6:1999 Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

FM approval
Control drawing 116-0165F

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.

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE marking

General

Ex-identification

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Protection from mechanical danger

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG

EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions

€ 0102

⟨ II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2032 X

NJ 40+...+N...

≤ 180 nF; a cable length of 10 m is considered.

 \leq 130 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

When used in the temperature range below -20 $^{\circ}$ C the sensor should be protected from knocks by the provision of an additional housing.

When used in group IIC non-permissible electrostatic charges should be avoided on the plastic housing parts. Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

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