

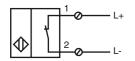
Model Number

NCN30+U2+N0

Features

- Comfort series
- 30 mm non-flush

Connection



Accessories

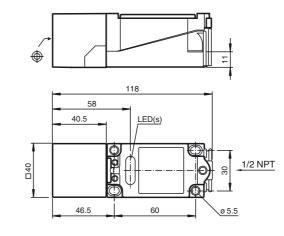
MHW 01 Modular mounting bracket MH 04-2057B Mounting aid for VariKont and +U1+

Subject to modifications without notice

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Technical Data

Technical Data		
General specifications		
Switching element function		NAMUR, NC
Rated operating distance	s _n	30 mm
Installation		non-flush
Output polarity		NAMUR
Assured operating distance	s _a	0 24.3 mm
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		0.42
Reduction factor r ₃₀₄		0.79
Nominal ratings		
Installation conditions		10 mm
A Nominal voltage		8 V
Switching frequency	U _o f	0 150 Hz
Hysteresis	H	1 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		Ves
Current consumption		,
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA
Switching state indication		LED, yellow
Functional safety related parameter	rs	
MTTF _d		2335 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Storage temperature		-40 100 °C (-40 212 °F)
Mechanical specifications		
Connection type		screw terminals
Core cross-section		$\leq 2.5 \text{ mm}^2$
Housing material		PBT
Sensing face		PBT
Protection degree		IP68
General information		
Use in the hazardous area		see instruction manuals
Category		2G
Compliance with standards and dir	ectives	;
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
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 \leq 36 V do not bear a CCC marking because they do not require approval.

ATEX 2G

Instruction

Device category 2G Directive conformity Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance C_i Effective internal inductance L_i General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Protection from mechanical danger

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 $C \in 0102$

⟨€x⟩ II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2032 X NCN30+U...+N0... ≤ 110 nF ; a cable length of 10 m is considered.

 \leq 160 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.

