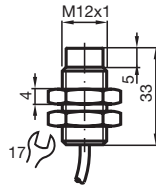


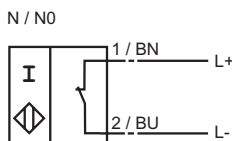
Comfort series  
4 mm not embeddable



CE 0102

Switching element function	NAMUR NC
Rated operating distance $s_n$	4 mm
Installation	not embeddable
Assured operating distance $s_a$	0 ... 3,24 mm
Reduction factor $r_{AI}$	0,4
Reduction factor $r_{Cu}$	0,3
Reduction factor $r_{V2A}$	0,85
Nominal voltage $U_o$	8 V
Switching frequency $f$	0 ... 1500 Hz
Current consumption	
Measuring plate not detected	$\geq 3$ mA
Measuring plate detected	$\leq 1$ mA
EMC in accordance with	EN 60947-5-2
Standards	DIN EN 60947-5-6 (NAMUR)
Ambient temperature	-25 ... 100 °C (248 ... 373 K) <sup>1)</sup>
Connection type	1 m, silicone cable
Core cross-section	0.34 mm <sup>2</sup>
Housing material	high grade steel
Sensing face	PBT
Protection degree	IP67

### Connection\_type:



### Instructions for the use in hazardous areas

- <sup>1)</sup> Note: For use in hazardous areas reduced values should be observed!
- <sup>2)</sup> For one sensor circuit; a cable with a length of 10 m is considered.

The temperature ranges, dependent on the temperature class, are listed in the prototype test certificate.

Inadmissible electrostatic discharges of the metal housing components have to be avoided. Dangerous electrostatic discharges of the metal housing components can be avoided by grounding these metal housing components, whereby very small metal housing components (e.g. screws) must not be grounded.

Further details can be found in the prototype test certificate.

### Installation, commissioning

This product has been developed and approved for the use in hazardous areas for protection class intrinsic safety to EN 50014 and EN 50020.

The intrinsic safety is only assured in connection with an appropriate accompanying apparatus and in accordance with the proof of intrinsic safety.

The prototype test certificate and laws and/or regulations governing the use or intended usage goal must be observed.


The device has to be protected against strong electromagnetic fields and mechanical damages.

### Repair and maintenance

No changes can be made to apparatus, which are operated in hazardous areas.

Repairs to these apparatus are not possible

## Data for Ex areas

Standard conformity	EN 50014:1997 EN 50020:1994
Marking	 II 2 G EEx ia IIC T6
Appropriate type	NJ 4-12GM-N...
EC-Type Examination Certificate	PTB 00 ATEX 2048 X
Effective internal inductivity $C_i$	$\leq 45 \text{ nF}^{2)}$
Effective internal inductance $L_i$	$\leq 50 \mu\text{H}^{2)}$