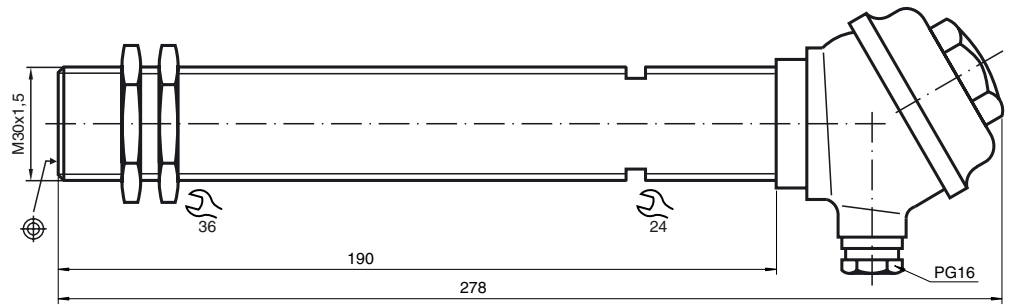


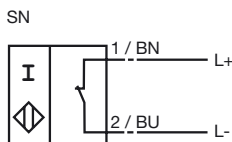
6 mm embeddable



CE 0102

General specifications	
Switching element function	NAMUR NC
Rated operating distance s_n	5.5 mm
Installation	embeddable
Output polarity	Safety Function
Assured operating distance s_a	0 ... 4.86 mm
Reduction factor r_{AI}	0.4
Reduction factor r_{Cu}	0.3
Reduction factor r_{V2A}	0.85
Nominal ratings	
Nominal voltage U_o	8 V
Operating voltage U_B	5 ... 25 V
Switching frequency f	0 ... 2000 Hz
Current consumption	
Measuring plate not detected	≥ 3 mA
Measuring plate detected	≤ 1 mA
Standard conformity	
EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	DIN EN 60947-5-6 (NAMUR) VDE 660 Part 209
Ambient conditions	
Ambient temperature	-40 ... 100 °C (233 ... 373 K) ¹⁾
Mechanical specifications	
Connection type	terminal block
Housing material	threaded pipe of steel M30 x 1.5
Sensing face	PBT
Protection degree	IP68

Connection type:



Instructions for use in hazardous areas

Attention: For use in hazardous areas reduced values should be observed!

The temperature ranges, dependent on the temperature class, can be found in the prototype test certificate of the built-in proximity switch.

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 of the built-in proximity switch.

Installation, commissioning

This product has been developed 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 of the built-in proximity switch and the 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

ATEX

Data for Ex areas	only for built-in proximity switches
Standard conformity	EN 50014:1997 EN 50020:1994
Marking	⊕ II 2G EEx ia IIC T6
Appropriate type	NJ 6-22-SN-G...
EC-Type Examination Certificate	PTB 00 ATEX 2049 X
Effective internal inductivity C_i	≤ 110 nF
Effective internal inductance L_i	≤ 150 μ H