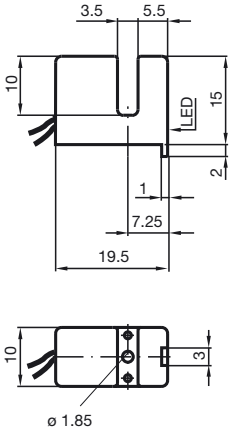
Inductive proximity switches

SC3,5-N0

Comfort series
3.5 mm slot width
Usable up to SIL 2 acc. to
IEC 61508

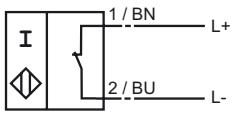


CE 0102

General specifications	
Switching element function	NAMUR NC
Slot width	3,5 mm
Depth of immersion (lateral)	5 ... 7 typ. 6 mm
Installation	
Nominal ratings	
Nominal voltage U_o	8 V
Switching frequency f	0 ... 3000 Hz
Hysteresis H	0,41 ... 0,6
Current consumption	
Measuring plate not detected	≥ 3 mA
Measuring plate detected	≤ 1 mA
Indication of the switching state	LED, yellow
Standard conformity	
EMC in accordance with	NE 21
Standards	DIN EN 60947-5-6 (NAMUR)
Ambient conditions	
Ambient temperature	-25 ... 100 °C (248 ... 373 K)
Mechanical specifications	
Connection type	0.5 m, PVC - flexible lead
Core cross-section	0.14 mm²
Housing material	PBT
Protection degree	IP67
General information	
Use in the hazardous area	see instruction manuals
Category	2G

Connection type:

N / N0



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ATEX 2G

Instruction	**Manual electrical apparatus for hazardous areas**
Device category 2G	for use in hazardous areas with gas, vapour and mist
Directive conformity	94/9/EG
Standard conformity	EN 50014:1997, EN 50020:1994 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
CE symbol	CE 0102
Ex-identification	Ex II 2G EEx ia IIC T6
EC-Type Examination Certificate	PTB 99 ATEX 2219 X
Appropriate type	SC3,5...-N0...
Effective internal capacitance C_i	≤ 150 nF ; a cable length of 10 m is considered.
Effective internal inductance L_i	≤ 150 µH ; a cable length of 10 m is considered.
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EU prototype test certificate must be observed. The special conditions must be adhered to!
Highest permissible ambient temperature	The temperature ranges, according to temperature class, are given in the EU prototype test certificate.
Installation, Comissioning	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.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
[Fett]Special conditions	
Protection from mechanical danger	The sensor must not be mechanically damaged. When used in the temperature range below -20°C the sensor should be protected from knocks by the provision of an additional housing.

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