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DUST SENSOR

COMPLIANCE WITH STANDARDS AND GUIDELINES	
Compliance with standard NAMUR Normative	EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates	Certification ETL cETLus Approvals CCC - for products with a maximum operating voltage of 36V not need permission. Therefore, do not bear the CCC designation

GENERAL SPECIFICATION	
Switching functions	normally open (NO)
Output type	NAMUR
Switching distance	sn 10mm
Installation	in one plane

CHARACTERISTIC VALUE	
Installation conditions	A – 0mm B – 0mm C – 20mm F – 60mm
Rated voltage (UO)	8,2 V (Ri cca. 1 kΩ)
Operating voltage (UB)	5 ... 15 V
Switching frequency	0 ... 50 Hz
Reverse polarity protection	reverse polarity protection
Consumption of electricity	the measuring plate has not been detected ≤ 1,5 mA measurement plate detection ≥ 2,5 mA
Switch status indication	LED yellow

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MECHANICAL SPECIFICATION	
Connection type	device connector M12 x 1, 4 outlets
Housing material	Stainless Steel 1.4305 / AISI 303
Front surface	PTFE
Protection class	IP 67

AMBIENT CONDITIONS	
Ambient temperature	-20 … 70 °C (-4 … 158 °F)

EQUIPMENT PROTECTION LEVEL Ga	
Instruction	Electrical equipment for areas with risk of explosion3
Category of equipment	For use in potentially explosive atmospheres containing gas, steam, spray mist
The EC type examination certificate	BVS 13 ATEX E 074 X
ATEX labeling	Ex II 1G Ex ia IIC T1 – T6 Ga
Labeling	CE 0102
Normative	EN 60079-0:2012 EN 60079-11:2012 EN60079-26:2007 The degree of protection against inflammation is typical of its own safety
Appropriate type	CCB10-30GS55 – N1…
Effective internal inductance	Ci ≤ 250 nF Li ≤ 200 µH
Generals	The device must be operated in accordance with the data in the technical data sheet and in accordance with these operating instructions. The EU type-examination certificate must be adhered to. Special conditions must be met! The ATEX Directive generally applies only to the use of electrical equipment under atmospheric conditions. When using electrical equipment outside the atmospheric conditions, the possible reduction of permissible ignition energy must be taken into account.
Maximum permissible ambient temperature	T6: Pi = 100 mW, Ui = 15 V, Ii =30 mA 40 °C (104 °F) T5: Pi = 100 mW, Ui = 15 V, Ii = 30 mA 40 °C (104 °F) T4: Pi = 100 mW, Ui = 15 V, Ii = 30 mA 80 °C (176 °F) T3, T2, T1: Pi = 100 mW, Ui = 15 V, Ii = 30 mA 80 °C (176 °F)

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EQUIPMENT PROTECTION LEVEL Da	
Instruction	Electrical equipment for areas with risk of explosion
Category of equipment 1D	For use in potentially explosive atmospheres containing flammable dust
The EC type examination certificate	BVS 13 ATEX E 074 X
ATEX labeling	Ex II 1D Ex ia IIIC T101°C Da
Labeling	CE 0102
Normative	EN 60079-0:2012 EN 60079-11:2012 The degree of protection against inflammation is typical of its own safety "ia"
Appropriate type	CCB10-30GS55 – N1…
Effective internal inductance	Ci ≤ 250 nF Li ≤ 200 µH
General operation	The device must be operated in accordance with the data in the technical data sheet and in accordance with these operating instructions. The EU type-examination certificate must be adhered to. Special conditions must be met!
Permissible range of ambient temperatures	-20 … 90°C (-4 … 194 °F)

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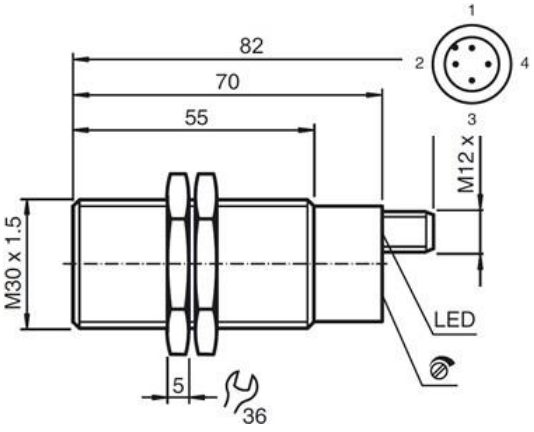
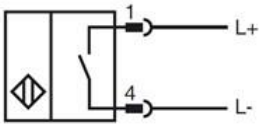
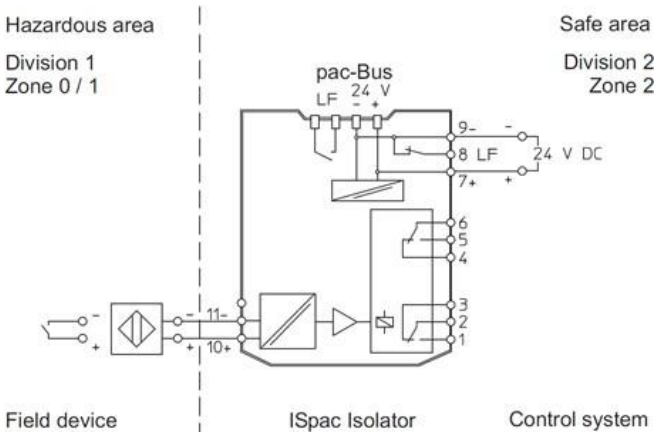




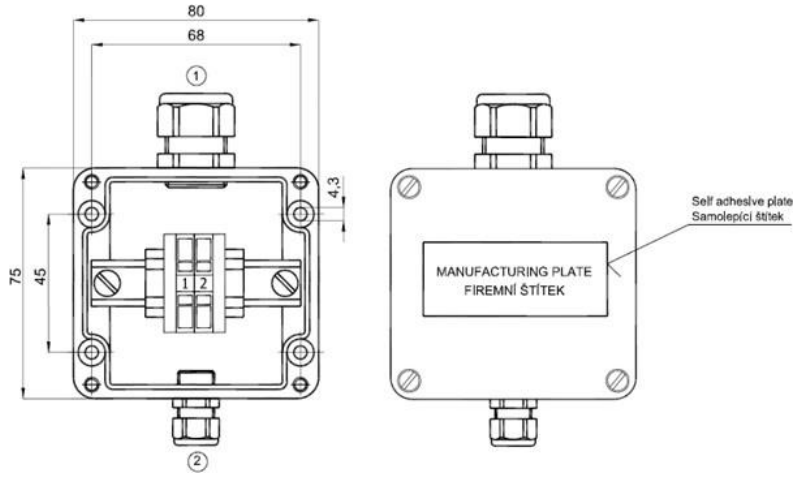
If installed in an explosion zone, it must be connected via an intrinsically safe circuit (eg intrinsically safe relay), see below.

Intrinsically safe relay – STAHL 9170/xx-xx-xx

11-11-11	24V	1 -channel, relay output (signal) 3G/3D*
21-11-11	24V	2 - channel, relay output (signal) 3G/3D*
21-10-11	24V	2 - channel, relay output (signal) 3G/3D*
11-11-21	230V	1 - channel, relay output (signal)
21-11-21	230V	2 - channel, relay output (signal)
21-10-21	230V	2 - channel, relay output (signal)
11-12-11	24V	1 - channel, relay output (power)
21-12-11	24V	2 - channel, relay output (power)
11-12-21	230V	1 - channel, electronic
21-12-21	230V	2 - channel, electronic
11-14-11	24V	1- channel, electronic 3G/3D*
21-14-11	24V	2- channel, electronic 3G/3D*
11-14-12	24V	1 - channel, electronic LFT 3G/3D*



Connection box



Connection in a box installed on the outer shell of the flap