



- Controlled electrostatic grounding of extremely versatile objects
- One potential-free change-over contact per channel for signaling to the distributed control system or external signalling devices
- Compact dual-channel device
- LED status indicator

A7

WebCode **9170B**



The device ensures electrostatic grounding of objects and automatically detects defective or interrupted earth connections in the system and disconnects the process. This guarantees that an electrostatic charge remains at a safe level and that there is no risk of explosion caused by the uncontrolled discharge of this energy.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in			•			

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•		•		•	
Installation in		•				

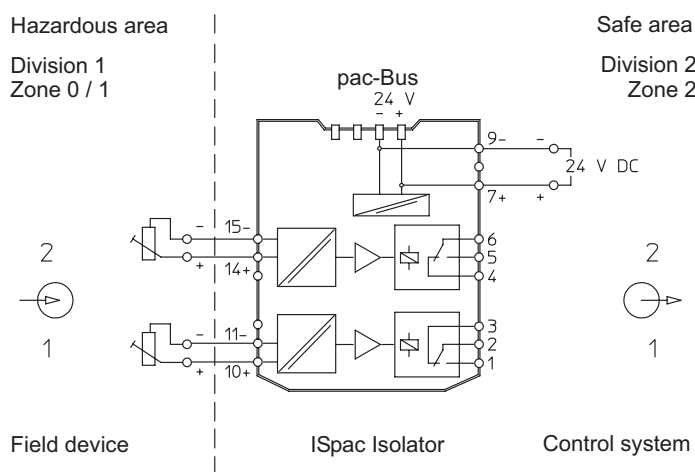
	CE Code Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			

Selection Table					
Number of channels	2				
Auxiliary power	Output per channel	Product Type	Art. No.	Weight	
24 V DC	1 change-over contact – signal relay	9170/21-30-10s	169318	175 g	

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex ec nC [ia Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC
ATEX gas explosion protection	⊕ II 3 (1) G Ex ec nC [ia Ga] IIC T4 Gc
ATEX dust explosion protection	⊕ II (1) D [Ex ia Da] IIIC
Certificates	ATEX (BVS), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (BVS), India (PESO), Korea (KGS), USA (FM)
Ship approval	CCS, EU RO MR (DNV)
Declaration of Conformity	ATEX (EUK), China (CCC)
Installation	Zone 2, Zone 22
Safety Data	
Max. voltage U_o	9.6 V
Max. current I_o	10 mA
Max. power P_o	24 mW
Safety-related max. voltage	253 V
Electrical Data	
LFD relay	No
Input	
Resistor for ON	≤ 20 kΩ
Resistor for OFF	≥ 50 kΩ

Technical Data	
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	DIN rail NS35/15, NS35/7.5




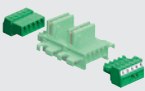
Technical Drawings – Subject to Alterations





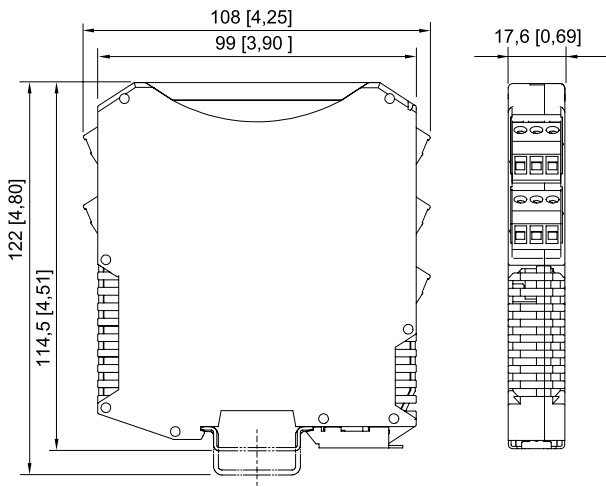
Connection diagram 9170/21-30-10

Accessories

Figure	Description	Art. No.	Weight
Grounding clamp with cable			
	10 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 °C to +70 °C Certificates: ATEX, IECEx	247673	2.9 kg
Grounding clamp with spiral cable			
	10 m oil- and petrol-resistant spiral cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 °C to +70 °C Certificates: ATEX, IECEx	247674	4 kg
	5 m oil- and petrol-resistant spiral cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 °C to +70 °C Certificates: ATEX, IECEx	247672	1.5 kg

Accessories			
Figure	Description	Art. No.	Weight
Grounding clamp with automatic retractor for cable			
	Automatic retractor with 20 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug, aluminium enclosure, protected cable duct with stopper Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 °C to +70 °C Degree of protection (IP): IP43 Certificates: ATEX, IECEx	247671	14.5 kg
	Automatic retractor with 9 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug, plastic enclosure Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -20 °C to +70 °C Degree of protection (IP): IP42 Certificates: ATEX, IECEx	247660	4.5 kg
	Automatic retractor with 12 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug, aluminium enclosure, protected cable duct with stopper Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 °C to +70 °C Degree of protection (IP): IP42 Certificates: ATEX, IECEx	269915	6.2 kg
Terminal set for pac-Bus			
	For the supply of 24 V DC auxiliary power via terminals (alternative to using the supply module 9193/21-11-11), with jumper for error message chain for ISpac module 91xx	160730	8 g

Spare Parts			
Figure	Description	Art. No.	Weight
Grounding clamp with fast-action plug			
	Robust, ergonomic grounding clamp with 150 mm cable and fast-action plug Spare part for automatic retractors (247660, 269915 and 247671), cable and spiral cable	247675	600 g
Earthing terminal			
	Earthing terminal for the additional protective circuitry of the input	160658	1 g



ISpac Series 9143, 9146, 9147, 9160, 9162, 9163,
 9165, 9167, 9170, 9172, 9175, 9176, 9180, 9182,
 9193, ISbus Series 9412 with screw terminal