Grounding monitoring device



8146/5-V73 Art. No. 273441



- · Continuous monitoring of correct grounding
- Robust design
- Plastic enclosure (IP66)
- One potential-free change-over contact for signalling to the distributed control system or external signalling devices
- · Insulated suspension point

MY R. STAHL 8146H



The grounding monitoring device ensures that tank containers, barrels, road tankers, rail vehicles and IBCs are electrostatically grounded while combustible liquids and powders are being loaded. The device simultaneously monitors electrostatic grounding.

This guarantees that an electrostatic charge remains at a safe level and that there is no explosion hazard caused by the uncontrolled discharge of this energy.

Technical Data

Explosion Protection	
Application range (zones)	1, 2, 21, 22
Ex interface zone	1, 2, 21, 22
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	ௐ II 2 (1) G Ex db eb [ia Ga] IIC T4 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	ⓒ II 2 (1) D Ex tb [ia Da] IIIC T80 °C Db
Certificates	ATEX (PTB)
Declaration of conformity	ATEX (EUK)
Safety Data	
Max. voltage U _°	9.6 V
Max. current I _°	10 mA
Max. power P _o	24 mW
Max. permissible external capacity $C_{\scriptscriptstyle o}$ for IIC	3.6 µF
Max. permissible external inductance $L_{\!\scriptscriptstyle \circ}$ for IIC	350 mH
Max. permissible external capacity $C_{\scriptscriptstyle o}$ for IIB	26 µF
Max. permissible external inductance $\mathrm{L_{o}}$ for IIB	1000 mH
Max. permissible external inductance ${\rm L_{\circ}}$ for I	1000 mH
Internal capacitance	2.42 nF
Internal inductance	Negligible
Safety-related max. voltage	253 V
Electrical Data	
Number of channels	1

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Auxiliary Power			
Nominal voltage range DC	18 – 31.2 V		
Nominal current	100 mA		
Power consumption	3 W		
Output	·		
Limit contact	Change-over contact		
Min. output load condition	1 V / 100 μA		
Max. output DC load condition	125 V / 1 A		
Max. output AC load condition	125 V / 1 A		
Output switching capacity	25 W / 50 VA		
Ambient Conditions			
Ambient temperature	-20 °C 55 °C		
Ambient temperature	-4°F +131°F		
Storage temperature	-40 °C 80 °C		
Storage temperature			
Use at the height of			
lax. operating altitude 2000 m			
Mechanical Data			
Degree of protection (IP)	IP66		
Enclosure material	Glass fibre reinforced polyester resin		
Silicone-free	No		
Terminal range of cable glands	4 – 13 mm		
Cable connection terminal area, inches	0.15 – 0.51 in		
Width	374 mm		
Width, inches	14.72 in		
Height	230 mm		
Height in inches	9.06 in		
Depth	190 mm		
Mounting depth in inches	7.48 in		
Weight	5.8 kg		
Weight	12.79 lb		
Connection		grey and green-yellow	blue
	Single-wire connection		
	- rigid	0.2 to 6 mm ²	0.2 to 4 mm ²
			0.0 to 0.5 mm ²

- rigid	0.2 to 6 mm ²	0.2 to 4 mm ²
- flexible	0.2 to 4 mm ²	0.2 to 2.5 mm ²
 flexible with core end sleeves with plastic sleeve 	0.25 to 2.5 mm ²	0.25 to 1.5 mm ²
 flexible with core end sleeves without plastic sleeve 	0.25 to 4 mm ²	0.25 to 2.5 mm ²

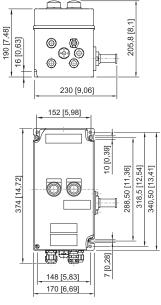


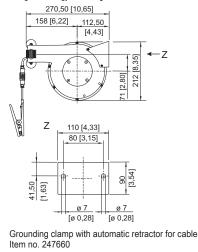
Grounding monitoring device

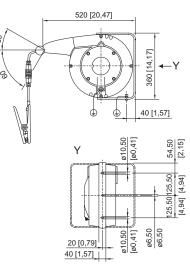


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Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations

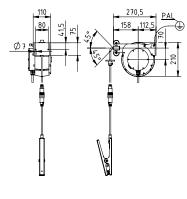






Grounding clamp with automatic retractor for cable ltem no. 247671

Type 8146/5075, 8146/5-V73





Grounding clamp with automatic retractor for cable Item no. 269915

Accessories

Grounding clamp with cable		Art. No.
Õ	10 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stain- less 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

Grounding monitoring device



8146/5-V73 Art. No. 273441

Grounding clam	p with spiral cable	Art. No.
	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
	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
Frounding clam	p with automatic retractor for cable	Art. No.
	 Self retracting reel 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
	Self retracting reel 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
	 Self retracting reel with 9 m oil- and petrol-resistant cable with robust, ergonomic grounding clamp made from stainless steel, and fast-action plug, plastic enclosure Roofing must be provided when installing the unit outside. 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

Spare Parts

Grounding clamp w	ith fast-action plug	Art. No.
AV AV	Robust, ergonomic grounding clamp with 150 mm cable and fast-action plug Spare part for self retracting reels (247660, 269915 and 247671), cable and spiral cable	247675

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.