



- Continuous monitoring of correct grounding
- Robust design
- Weather-protected stainless steel enclosure (IP66)
- Potential-free change-over contact for signalling to the process control system and external control devices
- Insulated point of suspension
- For use up to SIL 2 (IEC 61508)

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WebCode **8150G**



The grounding monitoring device ensures that tank containers, drums, road tankers, rail cars and IBCs are correctly electrostatically grounded during the loading of flammable liquids.

The device provides a conductive connection to the ground and monitors in parallel the quality of the electrostatic grounding.






This guarantees that the electrostatic charge remains at a safe level and that no explosion hazard is generated by uncontrolled energy discharge.


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

Selection Table				
Product Description	Grounding monitoring device			
Enclosure material	Product Type	Art. No.	Weight kg	
1.4404 stainless steel	8150/5-V75	256498 ▲	6.580	

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex db eb [ia Ga] IIC T4 Gb
IECEX dust explosion protection	Ex tb [ia Da] IIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2(1) G Ex db eb [ia Ga] IIC T4 Gb
ATEX dust explosion protection	⊕ II 2(1) D Ex tb [ia Da] IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), EAC (LPE), IECEX (PTB), India (PESO), SIL (exida), Taiwan (ITRI)
Safety Data	
Safety-related maximum voltage	253 V
Functional Safety	
SIL	2
Electrical Data	
Frequency range	48 – 62 Hz
Auxiliary Power	
Nominal voltage range AC	96 – 253 V
Nominal current	27 mA

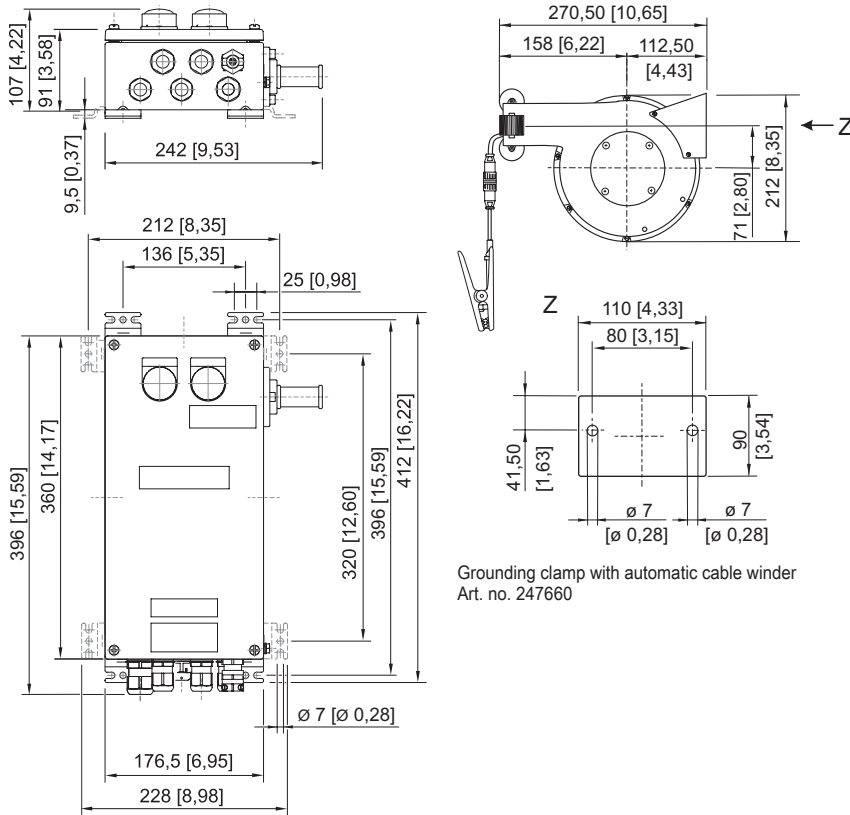
Technical Data	
Auxiliary Power	
Power consumption	3 W
Output	
Limit contact	changeover contact
Output min. load	12 V / 100 µA
Output max. load AC	250 V / 4 A
Output max. load DC	250 V / 2 A
Ambient Conditions	
Ambient temperature	-20 °C ... +55 °C
Storage temperature	-40 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP66

Accessories			
Figure	Description	Art. No.	Weight kg
Grounding clamp with cable			
	10 m oil and petrol resistant cable with robust ergonomic grounding clamp of stainless steel and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 ... +70 °C Certificates: ATEX, IECEx	247673	2.900
Grounding clamp with spiral cable			
	10 m oil and petrol resistant spiral cable with robust ergonomic grounding clamp of stainless steel and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 ... +70 °C Certificates: ATEX, IECEx	247674 ▲	4.000
	5 m oil and petrol resistant spiral cable with robust ergonomic grounding clamp of stainless steel and fast-action plug Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 ... +70 °C Certificates: ATEX, IECEx	247672 ▲	1.500
Earth clamp with automatic cable winder			
	Automatic winder with 20 m of oil and petrol resistant cable with robust ergonomic grounding clamp of 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 ... +70 °C Certificates: ATEX, IECEx	247671 ▲	14.500
	Automatic winder with 12 m of oil and petrol resistant cable with robust ergonomic grounding clamp of 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 ... +70 °C Certificates: ATEX, IECEx	269915	6.200
	Automatic winder with 9 m of oil and petrol resistant cable with robust ergonomic grounding clamp of stainless steel, and fast-action plug, plastic enclosure Installation in Zone 1, IIC, T6; Zone 21, IIIC, 135 °C Temperature range: -40 ... +70 °C Certificates: ATEX, IECEx	247660 ▲	4.500

Spare Parts			
Figure	Description	Art. No.	Weight kg
Earth clamp with fast-action plug			
	Robust ergonomic grounding clamp with 150 mm of cable and fast-action plug Spare part for automatic retractors (247660, 269915 and 247671), regular cables (247673) and spiral cables (247674 and 247672)	247675	0.600

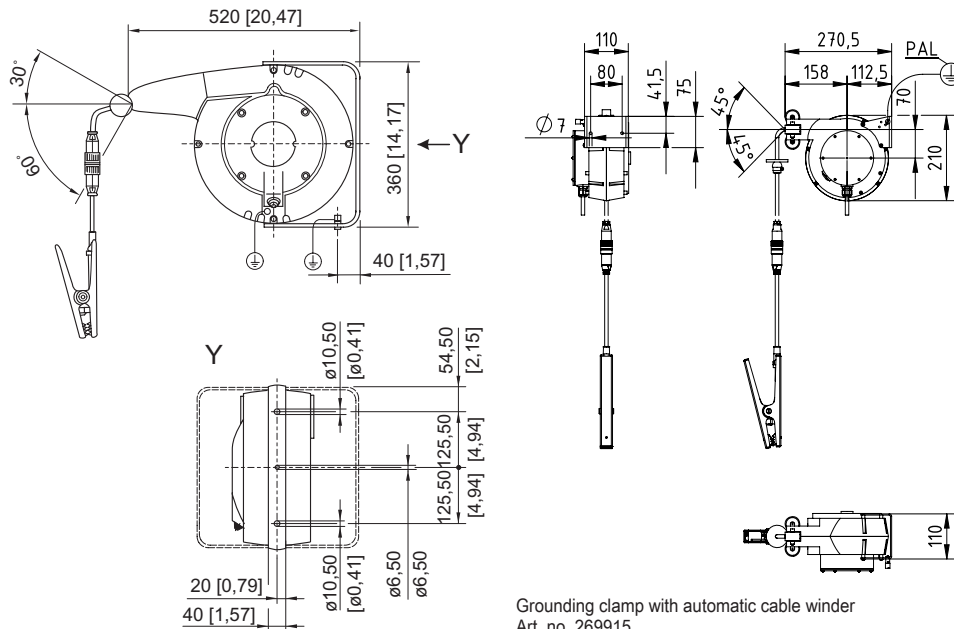
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

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Grounding clamp with automatic cable winder
Art. no. 247660

Type 8150/5-V75



Grounding clamp with automatic cable winder
Art. no. 247671

Grounding clamp with automatic cable winder
Art. no. 269915