## **Grounding Monitoring Device**

Series 8485 made of Aluminium





- · Continuous monitoring of correct earthing
- Potential operator errors are prevented thanks to object detection (on truck)
- · Water-jet-proof IP65 stainless steel or aluminum enclosure
- Up to four potential-free change-over contacts for signaling
- Ambient temperature -55 °C to +60 °C
- Auxiliary power: 24 V DC 230 V AC
- · Parameterisation when enclosure is closed

## WebCode 8485A



The grounding monitoring device ensures the electrostatic grounding of road tankers, rail cars and Big Bag (Rev. C) while loading flammable liquids and powder.

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.

The following recommendation requires grounding during loading and recommends interrupting loading in case of incorrect grounding:

- CLC/TR 60079-32-1 recommendation for avoiding ignition hazards due to electrostatic charges.
- TRBS 727 rules for avoiding ignition hazards as a result of electrostatic charges.

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

Selection Table					
Product Description		Grounding monitoring device			
Figure	Enclosure material		Product Type	Art. No.	Weight kg
	Aluminium		8485/111-42	263091▲	12.100

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db ib [ib] IIB T4 Gb
IECEx dust explosion protection	Ex ib [ib] tb IIIC T130 °C Db
ATEX gas explosion protection	
ATEX dust explosion protection	
EAC gas explosion protection	☐ 1Ex db ib [ib] IIB T4 Gb X
EAC dust explosion protection	⊞ Ex ib [ib] tb IIIC T130°C Db X
Certificates	ATEX (FTZU), EAC (ENDCE), IECEx (FTZU), India (PESO)



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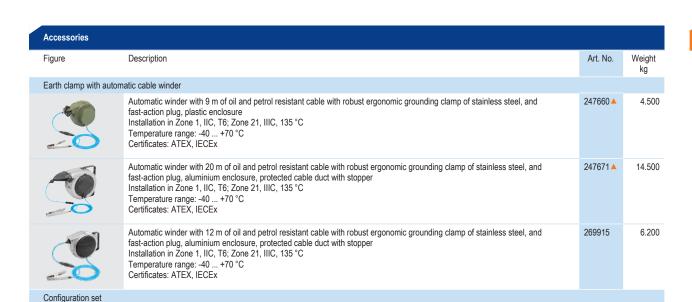
echnical Data	
afety Data	
Max. voltage U <sub>i</sub> signalling contacts	50 V DC
Max. current I, signalling contact	200 mA
Electrical Data	
Connections	Maximum diameter, single-wire - rigid 2.5 mm² - flexible 2.5 mm² - flexible, cable end sleeves with plastic cover 1.5 mm² - flexible, cable end sleeves without plastic cover 2.5 mm²
Operating mode selection	Road tanker, rail car and Big Bag recognition Selection via DIP switch
equency range	47 – 63 Hz
Auxiliary Power	
Iominal voltage range AC	20 – 230 V
lominal voltage range DC	20 – 300 V
lominal current	50 mA
Power consumption	10 VA
Dutput	
imit contact	up to 4 changeover contact
Output min. load	10 V DC / 100 mA
Output max. load AC	230 V AC / 3 A
Output max. load DC	230 V DC / 0.25 A, 40 V DC/3 A
Ambient Conditions	
ambient temperature	-55 °C +60 °C
Storage temperature	-55 °C +60 °C
Mechanical Data	
Degree of protection (IP)	IP65
Enclosure version	Flameproof enclosure (Ex d)
Cable diameter range of cable glands	6.1 – 11.7 mm

Accessories					
Figure	Description	Art. No.	Weight kg		
Earth clamp with spir	al cable				
	10 m ÖLFLEX with cable gland for 8485/111-42 Clamp made of stainless steel 1.4301 Ambient temperature: -30 +60 °C	263025▲	4.000		
Earth clamp with cab	Earth clamp with cable				
	10 m ÖLFLEX with cable gland for 8485/111-42 Clamp made of stainless steel 1.4301 Ambient temperature: -40 +60 °C	263023	2.900		
	10 m SIHF-J with cable gland for 8485/111-42 Clamp made of stainless steel 1.4301 Ambient temperature: -55 +60 °C	263024	2.900		

## Grounding Monitoring Device Series 8485 made of Aluminium

263097

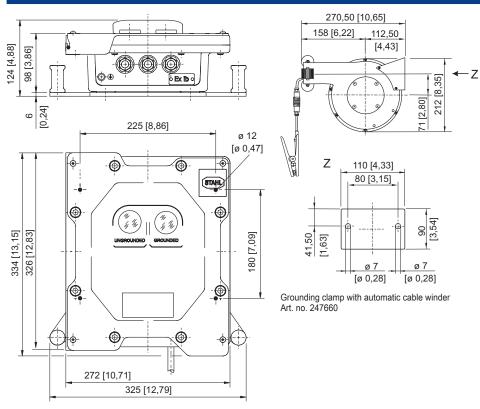
1.000



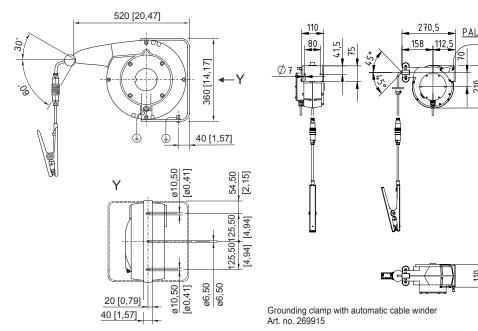
Spare Parts			
Figure	Description	Art. No.	Weight kg
Earth clamp with fast-ad	ction plug		
A. Comment	Robust ergonomic grounding clamp with 150 mm of cable and fast-action plug Spare part for automatic retractors (247660, 269915 and 247671), regular cables (247673) and spiral cables (247674 and 247672)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

Configuration set for Rev. C devices consisting of infrared adapter with USB port and USB stick with configuration software

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



Type 8485/111-42



Grounding clamp with automatic cable winder Art. no. 247671