



03655E00

STAHL

Grounding monitoring devices ensure that road tanker and tank wagons are grounded correctly during the loading or unloading of flammable liquids. The device provides a conductive connection to the ground and monitors in parallel the quality of the connection. The electrostatic charge of the tank is kept on a safe level. An occasional discharge in conjunction with a spark is prevented and therefore the explosion protection ensured.

The grounding monitoring device UZCL 3.d is able to distinguish between the correct grounding of road tankers and the incorrect grounding of other items, e.g. tank platform. If the pliers are connected to a road tanker the green light switched on and the relay will be energized. The contacts of the relay can be used to control e.g. a valve or to trigger an alarm.

The following recommendations demand the grounding of tank vehicles during the loading or unloading procedure and endorse that interlocks should be provided to prevent loading when the grounding cable is not connected.

- CENELEC CLC/TR 50404 Code of practice for the avoidance of hazards due to static electricity

- National Fire Protection Association NFPA77

Recommended practice of static electricity 2000 edition

Grounding Systems Grounding Monitoring Device UZCL 3.d

- Monitored grounding of road tankers and tank wagons during the loading and unloading of flammable liquids
- Safe verification of the connected object-distinction between road tanker and other objects like loading platform
- For use in Zone 1 and Zone 2
- Robust design
- Easy installation and operation
- Two potential free contacts for signalisation to the control system and control of alarm devices
- Cable and clamp inclusive

Zones 1 & 2

Selection table

Version	Description	Ordering code	Weight kg
Grounding Monitoring Device UZCL 3.d	Standard: The grounding monitoring device is available with a cable and clamp	4647630	12,500
Note		Self retracting reels, cable length or spiral cables are available on request	

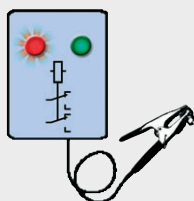
Technical Data

Certificates	FTZU 03 ATEX 0114
Explosion protection	⊕ II 2 G EEx d [ib] IIB T4
Installation	in Zone 1, Zone 2
Ambient temperature	- 25 °C ... + 40 °C
Storage temperature	- 20 °C ... + 40 °C
Degree of protection	IP 54 (optional IP 65)
Rated voltage	230 V
Frequency	50 Hz
Power consumption	10 VA
LED indication	

Operating principle:

State of grounding process

Reaction of grounding device

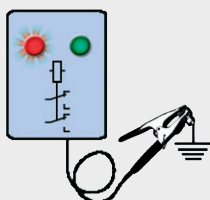


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Clamp is not connected, grounding equipment not in use

Grounding incorrect

- red light ON
- green light OFF
- contacts OPEN

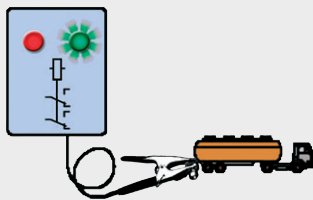


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Clamp connected directly to the ground, e.g. via loading platform

Grounding incorrect

- red light ON
- green light OFF
- contacts OPEN

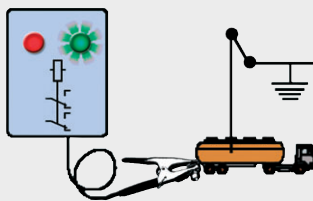


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Clamp connected to the road tanker

Grounding correct

- red light OFF
- green light ON
- contacts CLOSED



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Clamp connected to the road tanker. The road tanker is grounded consecutively (e.g. with the loading arm)

Grounding correct

- red light OFF
- green light ON
- contacts CLOSED



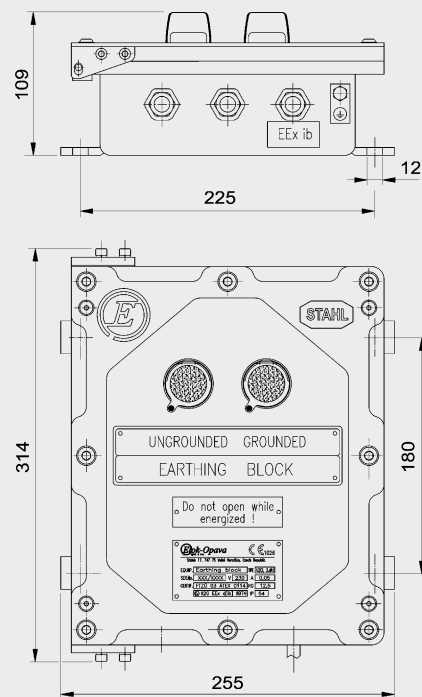
Grounding Systems

Grounding Monitoring Device UZCL 3.d

Technical Data

Control contacts	
Switching capacity	230 V / 3 A
Material	
Housing	steel ST37 acc. to DIN
Clamp	pressed galvanised steel, contact point in copper
Cable length	10 m (other length or cable on request)
Cable glands	HØ7RN-F 3G x 1,5 mm cable diameter 8,5 mm - 16 mm

Dimension drawings (all dimensions in mm) – subject to alterations



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Grounding monitoring device UZCL 3.d

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