



14834E00

- > Monitored electrostatic grounding of tank containers, barrels, road tankers, rail cars, IBCs and helicopters during loading
- > Continuous monitoring of correct grounding
- > Robust design
- > Weather-protected plastic enclosure (IP65) or stainless steel enclosure (IP65)
- > Potential-free contact for signalling to the process control system or external control devices
- > Insulated point of suspension
- > For use with up to SIL 2 (IEC 61508)



WebCode 8146H

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex i interface	x	x	x	x	x	x
For use in		x	x		x	x

Technical Data





Explosion protection	Grounding monitoring devices	
Version	8125/5071	8146/5075
Global (IECEX) Gas and dust	IECEX PTB 06.0079 Ex d e [ia] IIC T4 Gb Ex tb IIIC T80°C Db IP65	IECEX PTB 06.0090 Ex d e [ia] IIC T4 Gb Ex tb IIIC T80°C Db IP65
Europe (ATEX) Gas and dust	PTB 01 ATEX 1001 ⊕ II 2 G Ex d e [ia] IIC T4 Gb ⊕ II 2 D Ex tb IIIC T80°C Db IP65	PTB 01 ATEX 1024 ⊕ II 2 G Ex d e [ia] IIC T4 Gb ⊕ II 2 D Ex tb IIIC T80°C Db IP65
Certifications and certificates	IECEX, ATEX, Brazil (INMETRO), Kazakhstan (TR), Russia (TR), Belarus (TR)	
Certificates	DNV	
Ship approval		
Further parameters	in Zones 1, 2, 21, 22	
Installation		
Power supply		
Rated voltage	120 / 230 V	
Nominal voltage range	96 ... 253 V AC	
Power consumption	3 VA	
Output	potential-free NO contact (Ex e)	
Signalling contact	250 V / 4 A	
Maximum load AC	250 V / 2 A	
Maximum load DC	40 V / 3 A	
Minimum load	12 V / 100 µA	
Ambient conditions		
Ambient temperature	-20 ... +40 °C	
Storage temperature	-40 ... +80 °C	
Degree of protection	IP65	
Weight	8125/5071 6.5 kg	8146/5075 5.8 kg

Grounding Systems / Grounding Monitoring Device

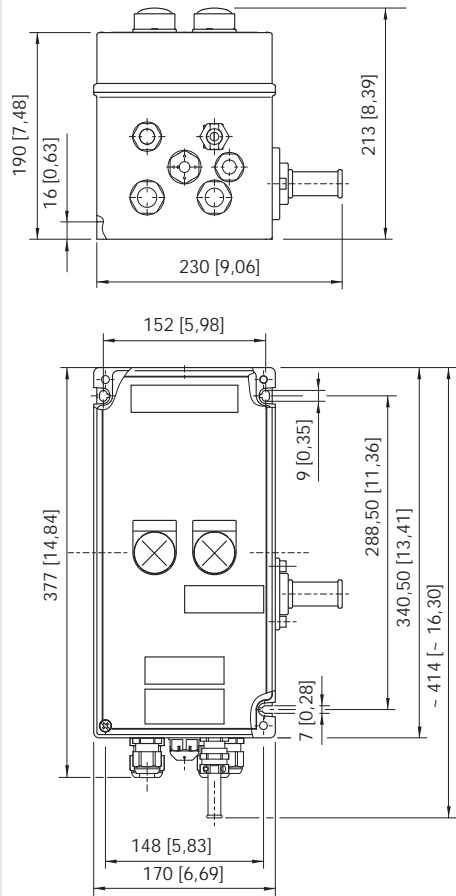
Series 8146/5075 and 8125/5071



E4

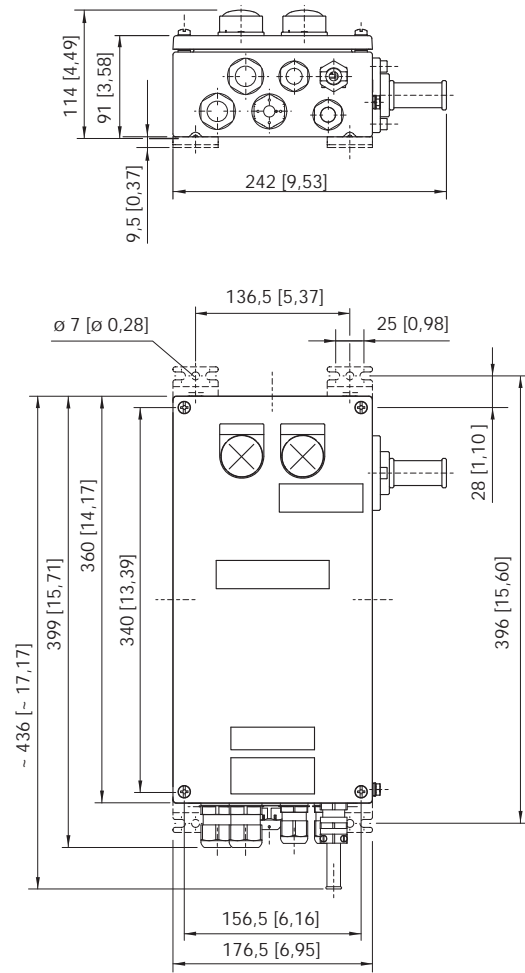
Selection Table				
Version	Description	Order number	Art. no.	PS
 <p>14728E00 Ground monitoring device 8125/5071</p>	<p>Grounding monitoring device 8125/5071 without cable. The device ensures that drums and tank containers are correctly electrostatically grounded and continuously monitors the connection. For use up to SIL 2.</p>	8125/5071	209056 ◀	54
 <p>12753E00 Ground monitoring device 8146/5075</p>	<p>Grounding monitoring device 8146/5075 without cable. The device ensures that drums and tank containers are correctly electrostatically grounded and continuously monitors the connection.</p>	8146/5075	136216 ◀	54
 <p>12056E00 Grounding clamp with cable</p>	<p>10 m oil and petrol resistant cable with robust ergonomic grounding clamp of stainless steel, and fast-action plug</p>		247673	54
 <p>12055E00 Grounding clamp with spiral cable</p>	<p>5 m oil and petrol resistant spiral cable with robust ergonomic grounding clamp of stainless steel, and fast-action plug</p>		247672	54
	<p>10 m oil and petrol resistant spiral cable with robust ergonomic grounding clamp of stainless steel, and fast-action plug</p>		247674	54
 <p>17637E00 Grounding clamp with automatic cable winder</p>	<p>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</p>		247660	54
 <p>17636E00 Grounding clamp with automatic cable winder</p>	<p>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</p>		247671	54
 <p>17638E00 Grounding clamp</p>	<p>Robust ergonomic grounding clamp with 150 mm of cable and fast-action plug</p>		247675	54
<p>Note *) Special cable length possible on request. Price and date of delivery differ from the standard.</p>				

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



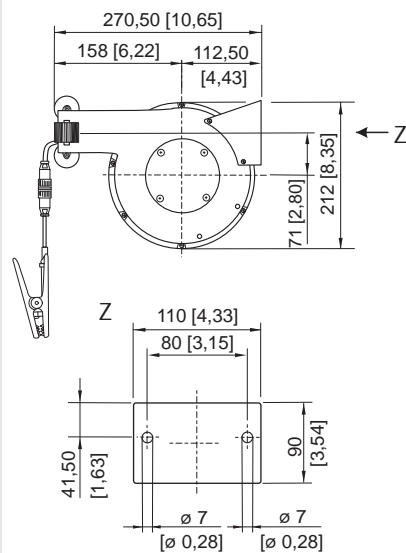
08029E00

Grounding monitoring device 8146/5075



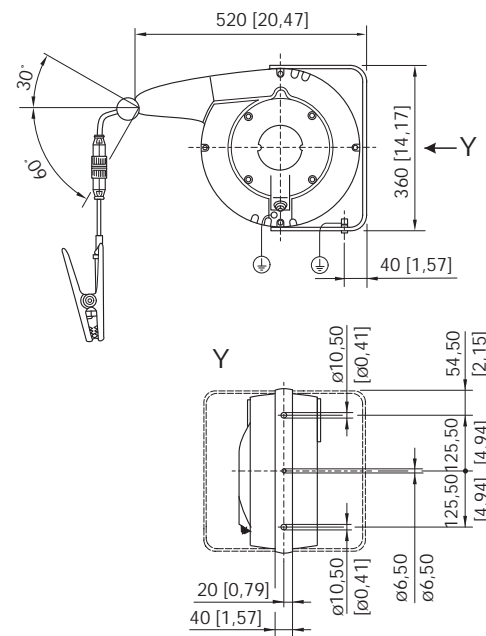
14867E00

Grounding monitoring device 8125/5071



17658E00

Cable drum with automatic cable winder
(Art. no. 247660)



17667E00

Cable drum with automatic cable winder
(Art. no. 247671)