

Operating instruction



Precipitation detector types FRA616D und FR8616D

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Precipitation detector

types FRA616D and FR8616D

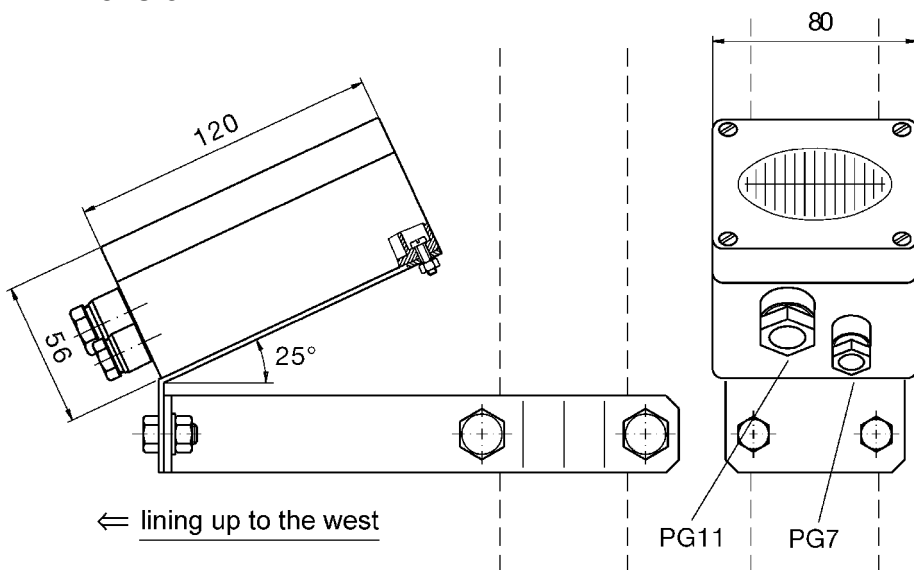
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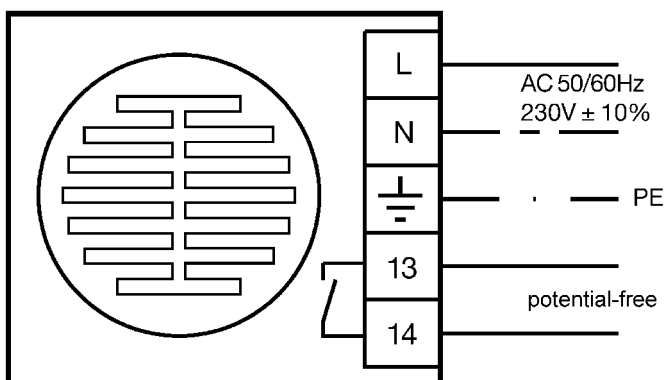
1. Description

- The sensor reacts to precipitation in the form of either rain or snow within just a few seconds.
- It detects even very slight precipitation.
- The precipitation detector reacts by switching a relay. It does not provide a continuous measuring signal; it operates with a step function :
 - If it detects precipitation,
display in ALMEMO® measuring instrument : 1.0000,
 - if it does not detect precipitation,
display in ALMEMO® measuring instrument : 0.0000.
- The precipitation detector is designed for use for example in automatic ventilation or shading systems, or in automatically controlled greenhouses, etc.

2. Dimension



3. Connection



4. Technical data

Voltage connection:	230V AC ±10% 6VA (50/60 Hz) optional 24V AC
Power draw:	
Elektronics:	3 VA
Preheating:	1 VA
Total heating:	3 VA
Admissible ambient temperature.:	-30 ... +60 °C
Storage temperature:	-30 ... +70 °C
Relative humidity:	0 ... 100 %
Relay drop-out delay:	5 minutes ± 15%
Test voltage:	
Terminals L or N → Electronics :	1,5kV
Electronics → Relay contacts:	1,5kV
Electromagnetic compatibility:	EN50081-1; EN50082-2; EN61010-1
Relay output:	250V AC, max. 4A, 300VA inductive.
Duty classification:	approx. 1 million operations
Housing:	
Material:	polycarbonate, gray
Protection system:	IP65
Mounting system:	Tubular steel pole, diameter approx. 25 to 50 mm
Weight:	approx 0,8 kg (incl. mounting materials)
Connection	
FR8616D:	with connecting terminals
FRA616D:	with ALMEMO® connector and 12-meter connection cable

5. Product overview

Option:	
Precipitation detector designed for connection to 24 V AC	Order no. OR8616U6
Precipitation sensor including mounting materials	Order no. FR8616D
Precipitation sensor including mounting materials, ALMEMO® connector, and 12-meter cable	Order no. FRA616D

7. Your contact