Precipitation detector, FRA 616 D and FR 8616 D



- 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.

10/2013 • We reserve the right to make technical changes.

Technical Data

Voltage connection	230 V AC ±10% 6 VA (50/60 Hz)
Power draw	
Electronics	3 VA
Preheating	1 VA
Total heating	3 VA
Admissible ambient temperature	-30 to +60 °C
Storage temperature	-30 to +70 °C
Relative humidity	0 to 100 %
Relay drop-out delay	5 minutes ± 15%
Test voltage	
Terminals L or N → Electronics	1.5 kV
Electronics → Relay contacts	1.5 kV
Electromagnetic	EN50081-1; EN50082-2;
compatibility	EN61010-1

Relay output	250 V AC, max. 4 A, 300 VA 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

Types	Order no.
Precipitation sensor including mounting materials	**FR8616D**
Precipitation sensor including mounting materials, ALMEMO® connector, and 12-meter cable	**FRA616D**