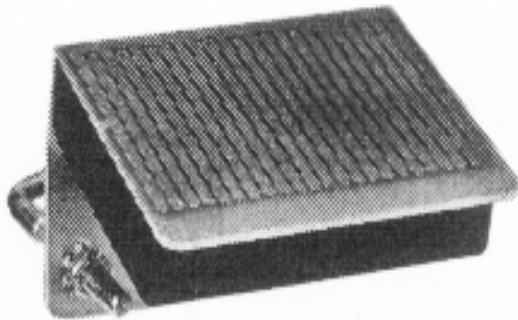


# Precipitation Monitor

Instruction for use 5.4105.00.000

**Thies**  
CLIMA



## Description

On the beginning of the precipitation event the rain drop for ex. Moistures the sensor area and makes a conductive contact between the electrodes. By this, a relay is cut through and the controlling event is done.

The sensor area is heated in two levels. Heating level 1 is switched-on constantly in order to prevent ice and dew from forming. Heating level 1 is switched-on when the sensor is moistened and makes the surface dry-up as soon as possible. After drying-up of the sensor area the second level is switched-off again.

## Installation

The precipitation monitor is screwed on a plane vertical surface with its angle plate, or is mounted onto a mast ( $\varnothing$  30...50 mm) by means of its mounting clamp. Please make sure that the falling rain is not disturbed.

**Attention :** When taking into operation the instrument, it is ready for use only after the switch-off-delay (approx. 5,5 min).

## Maintenance

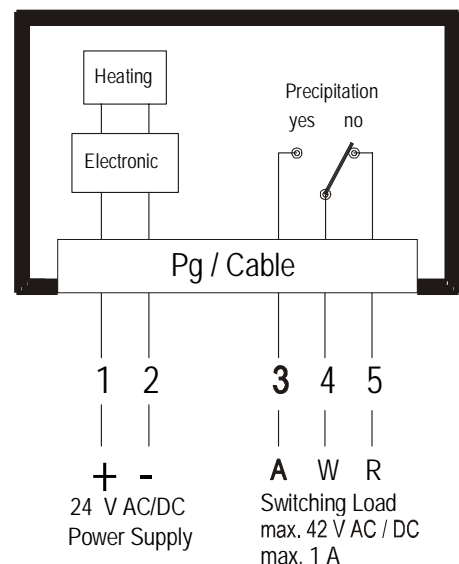
A layer of dirt can form on the sensor surface as a result of atmospheric pollution, This dirt has an isolating effect, and can lead to short-circuits. An accurate signal cannot be set off by the falling rain. Therefore the sensor surface has to be cleaned with a light cleaner at regular intervals, without damaging it.

## Technical Data

Measuring value	: Precipitation, yes / no
Sensor area	: 40 cm <sup>2</sup>
Signal	: Switching contact
Switch-on delay	: none
Switch-off delay	: 5,5 min.
Distance between electrodes	: 0,7 mm
Operating voltage	: 24 V AC/DC / max. 4 W
Switching load	: max. 42 V AC / DC max. 1 A, max. 4,5 W
Operating temperature	: - 30 ... + 50 C degree
Housing	: ABS
Protection	: IP 65
Cable	: 3 m long, 5 x 0,25 mm <sup>2</sup>
Dimension	: 76,5 x 54 x 18 mm
Weight	: 0,5 kg

**Remark:** For the power supply of the precipitation monitor it is recommendable to use **the power supply unit**, order-no. **9.3388.00.002**.

## Circuit Diagram





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