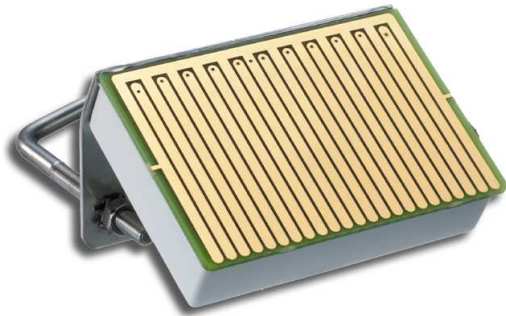


**Image**



**Product description**

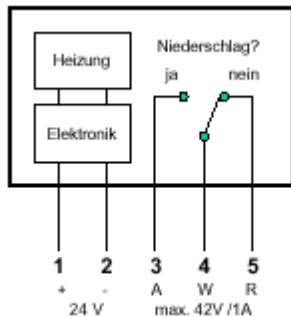
In the event of rain, raindrops form a conductive link between both electrodes on the sensor surface and trigger a switching signal. Once the surface has dried off, the relay drops out again after a delay.

The sensor surface is equipped with 2-stage heating. The first stage is permanently activated and prevents the sensor surface from either freezing over or thawing. The second stage is switched on when it begins to rain in order to ensure that the surface is dried quickly.

The rain sensor is suitable for use in conjunction with the ombra W2 weather sensor or for operation at any binary input for floating contacts (e.g. lumina B8 or lumina T6).

**Terminal diagram**

The rain sensor has a 24V AC/DC external voltage supply for heating the sensor surface. An extra-low-voltage changeover contact is used for isolated signalling of the rain.




Heizung: Heating  
 Niederschlag?: Rain?  
 ja/nein: yes/no

**spega Order information**

Order number	Description
410 202	ombra W1-R Rain sensor for ombra W2
411 202 C	ombra W2 Weather sensor

## Assembly instructions

- 1** The wind sensor is assembled with the help of an angle bracket on an external facade or mast.
- 2** The rain must be allowed to make uninterrupted contact with the sensor surface.
- 3** The measured value cable must be securely attached by means of clips, cable binders or similar fastening material so that it is not destroyed as a result of flapping or becoming frayed.
- 4** During assembly, observe all measures to protect the device against overvoltage.

 **Electrical devices must be assembled and installed by trained personnel only.**

 **Please observe local standards, guidelines and regulations when planning and installing electrical devices.**

 **The device specifications given in this document must be adhered to.**

## Operation

### Operation/cleaning:

Due to impurities in the atmosphere a layer of dirt may gradually form on the sensor surface, possibly resulting in short circuits or incidents of isolation, such that trouble-free operation may be adversely affected. For this reason, the sensor surface should be cleaned regularly with a mild cleaning agent to ensure it is not damaged.

## Technical Data

### Power supply

Operating voltage 24V DC (15...27V DC)  
Current input max. 150mA (3600mW)

### Data acquisition

Measurand Rainfall  
Signal Floating changeover contact element  
Electrode clearance 0,7mm  
Sensor face 40cm<sup>2</sup>  
Turn-iff delay 5,5 min.

### Outputs

Alarm contact 1 floating changeover contacts  
Switching capacity max. 42V AC/DC, max. 1A, max. 4,5VA

### Connections

Lead LiYY 5 x 0,25mm<sup>2</sup>, length 3m

### Housing

Material Plastics ABS  
Dimensions 75 x 54 x 18 (H x W x D)  
Type/location of installation Mast or wall mounting with enclosed mounting angle

### Ambient conditions

Operating temperature -25°C ... +60°C  
Storage temperature -25°C ... +60°C  
Transportation temperature -25°C ... +60°C  
Rel. Humidity 5% ...93% (without condensation)  
Installation height up to 2000 m above sea level

### Safety

Electrical isolation SELV (EN 60 950)  
Class of protection I (IEC 536 / VDE 106 part 1)

### Standards/guidelines

Device safety acc. to EN 50 090-2-2  
Certification CE