

Manual & Data sheet

Rain / snow / condensation / moisture sensor FR-1

The maintenance-free and weather-proofed (IP67) rain / snow / condensation / moisture sensor FR-1 is a versatile sensor to detect rain, snow, condensation, moisture, strong dew.

A two-stage heating avoids in stage 1 condensation on the sensor / measuring surface. Stage 2 ensures that detected condensation / moisture will dry rapidly.

In combination with the evaluation instrument AR-1 a control and evaluation system exists to control illumination, light, jalousies, marquees, blinds, shutters, air conditioning, heaters, ventilation, flaps, roof hatches and build-ups



Connection – Installation – Commissioning:

! Connection, installation and commissioning only by qualified and skilled person with electrical education !

! Mount devices at the provided positions and wire according to the schematics !

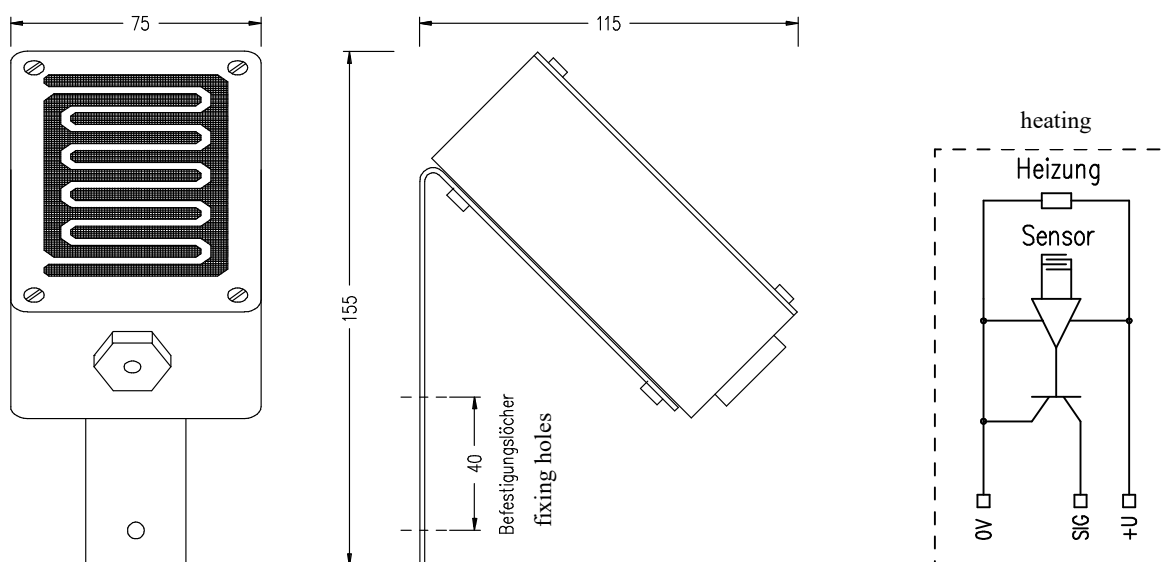
Caution: Wrong connecting may cause damage of the instrument and sensor !

Check for correct wiring before switching on the power supply !

Technical data FR-1:

Operating voltage typ.:	24 VDC $\pm 10\%$, 0.4 A (incl. heating), (power supply via evaluation instrument AR-1)
Measuring range:	rain / snow / condensation / moisture / dew: yes / no (no value over time)
Ambient temperature:	-30...+80 °C
Protection degree:	IP 67
Output signal:	max. 24 VDC, open-collector, short circuit protection
Connection:	3 screw clamps, max. 3x 2.5 mm ²
Dimensions:	75 x 110 x 45 mm (WxHxD)

Dimensions / Connecting plan:



Installation and mounting:

Mounting in upright / vertical direction at ca. 45° grade / inclination (see picture above,) and cable connection from bottom side.

Select mounting place for rain / snow / condensation / moisture without surrounding obstacles (e.g. trees, buildings...) on a rod or wall or roof top, and that water can easily flow off.