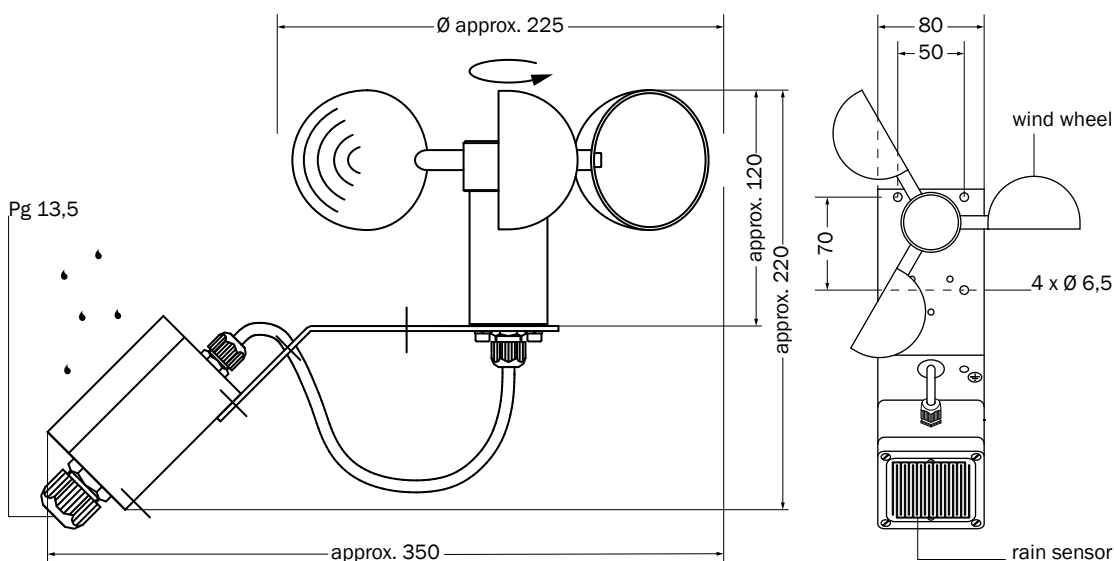
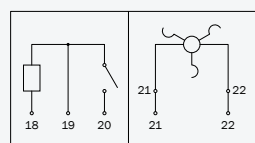




Order designation: Wind-rain sensor WRF 401/C



Short description

Wind wheel

The wind sensor of the WRF 401/C consists of a wind wheel which triggers a specific switch frequency according to the wind speed, conducting to the switch operation at the control unit.

Rain sensor

On the upper side of the rain sensor of the WRF401/C there is a corrosion-resistant sensor plate, which is connected to an alternating voltage of approx. 18 – 24 V/ 50 Hz. The sensor plate is electrically heated for the quick drying of the electrodes, e.g. after a rainfall. When rainwater gets onto the sensor surface, a signal is routed to the wind-rain module and a switching operation is activated.

The rain sensor WRF 401/C must be mounted at the main weather side at an unprotected location (lighting protection earthing). Several mounting options with special accessories can be performed. In the case of rain or snowfall, or wind, a switch signal is directed to the switch device WRM 401/C (→chapter 11.4, page 411, “Wind-Rain Detector WRM 401/C”).

Wind wheel function control

Check the smooth functioning of the wind wheel.

Rain sensor function control

When the sensor surface of the rain sensor is touched by a moistened hand, a rain message at the control unit is activated.

Technical data

Type	WRF401
operating voltage	18 – 24 V/ 50 Hz
housing colour	wind wheel: galvanized black; rain sensor: RAL 7 035 (light grey)
power consumption	approx. 1,2 W
temperature range	-20 °C to +80 °C
maintenance	wind wheel: annual test for dirt and smooth functioning rain sensor: yearly cleaning of sensor plate more frequently according to strong environmental load
materials	wind wheel: aluminum, polyethylene rain sensor: ABS, epoxy resin, galvanically gold-plated

Accessories

standing unit for WRF/RS	→chapter 11.4, page 421, “Standing Unit WRF/RS”
wall unit Duo for WRF/RS	→chapter 11.4, page 423, “Wall Unit Duo for WRF/RS”
wall unit Solo for WRF/RS	→chapter 11.4, page 422, “Wall Unit Solo for WRF/RS”

Attention!

The grounding is performed in accordance with the valid installation instructions.
When using our optional extras at the marked position.