



WRD  
230

## Technical Data

<b>Supply voltage</b>	230Vac ±10% 50/60Hz 6VA
<b>Internal power consumption</b>	
Electronic:	3 VA
Preheating:	1 VA
Total heating:	3 VA
<b>Ambient temp. range</b>	-30...+60°C
<b>Storage temperature</b>	-30...+70°C
<b>Relative humidity</b>	0...100%
<b>Switching point</b>	Fixed
<b>Switching hysteresis</b>	Fixed, approx. 30% of the switching point
<b>Drop-out time</b>	5 minutes ±15%
<b>Test voltage</b>	
Terminal L or N→Electronic	1,5 kV
Electronic→Relay contacts	1,5 kV
<b>Electromagnetical: Compatibility</b>	Test values in acc. with EN 50081-1; EN 50082-2; EN 61010-1
<b>Relay output</b>	250Vac, max. 4A, 300 VA ind.
<b>Switching frequency</b>	Approx. 1mio. switching cycles
<b>Housing</b>	PC, european grey
<b>Protection class EN 60529</b>	IP65
<b>Mounting:</b>	Metal tube mast ∅ approx. 25-50mm
<b>Weight incl. mounting material</b>	Approx. 0,8kg

## Features

- Gives no false alarm
- Robust design
- Can be used for Meteorological Measurement
- Suitable for Greenhouse Automation
- IP65 Housing

## Application

The detector recognizes rain or snow as a precipitation within a few seconds and transmits the signal by means of a potentialfree-relay contact (disturbance relay).

This switching output can be used for retransmission to e.g. ventilation or shading installations in automatically controlled greenhouses.

It recognizes even light drizzle without, however, giving a false rain signal with little condensation.

## Functional Description

If the plate resistance drops below the adjustable sensitivity setting, the built-in relay immediately pulls in.

At the same time the integrated sensor heating switches on.

After drying of the sensor surface (if the actual value falls below the limit value plus hysteresis) the automatic reset delay time starts.

This reset time is set to approx. 5 minutes.

From the moment when the reset time starts up to the moment when the sensor signals "rain" again, the sensor heating switches back to approx. 25% of its total value.

This heating beforehand serves to avoid a rain signal during, e.g., fog or dew.

The rain detector is supplied with mast mounting accessories.

### NB!

The unit must be connected by trained personnel.

All valid standards for connecting electrical devices must be observed.

The rain detector is maintenance free.

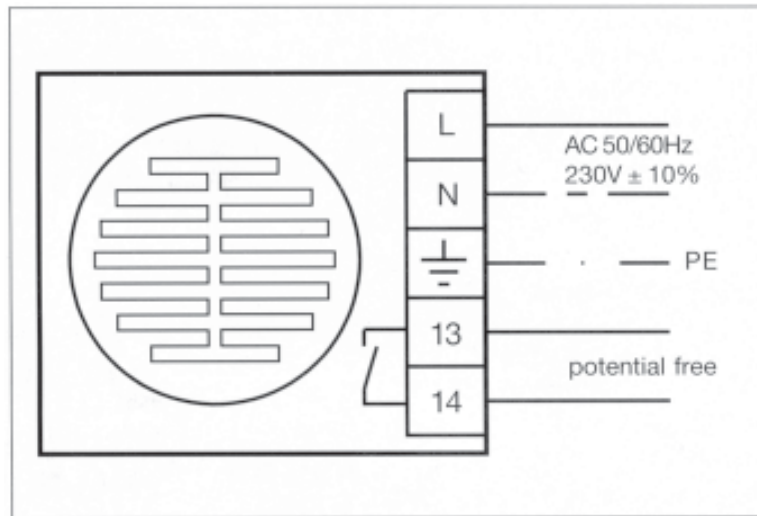
With high pollution, we recommend to clean the sensor surface with clear water with power disconnected.

## Ordering Codes

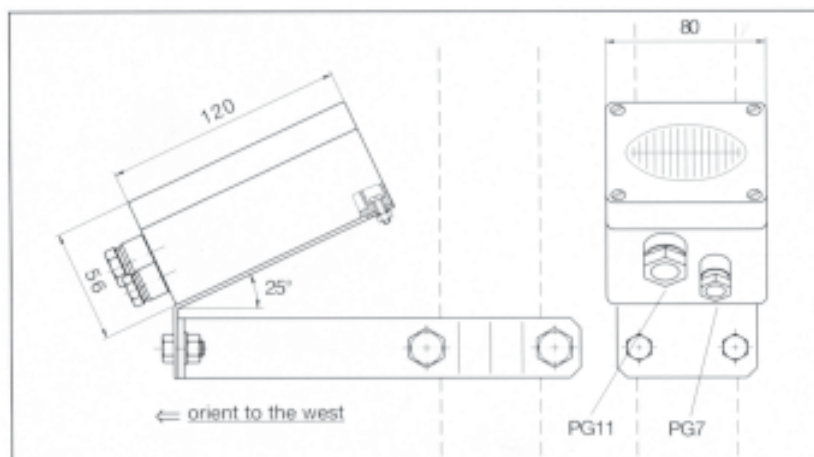
**WRD 230** Rain Detector 230 V

Other supply voltages on request

## Connection Diagram



## Dimensions



We reserve the right to make changes and improvements in our products which may effect the accuracy of the information contained in this leaflet.