SENSOR

PCE-FST-100-2007-RSS



- **Rain and snow sensor**
- **Automatic heating function up to 40°C / 104°F**
- **Output: RS-485 and relay**
- **Protection class: IP65**
- **Suitable for mounting on surfaces**
- **Compact, corrosion-resistant**

The rain and snow sensor is used for reliable precipitation detection and is employed to monitor weather conditions in environmental stations, for irrigation control systems, or in industrial plants. The rain and snow sensor enables a quick and reliable response to rain or snow. The sensor qualitatively detects the presence of precipitation via conductivity and condensation properties and provides the information digitally via RS-485 Modbus RTU and via a potential-free relay output, which can be used to directly switch external devices or controls.

The integrated relay output is designed as a normally open contact and provides galvanic isolation between the sensor voltage and the switched circuit. This allows both low-voltage and mains voltage applications to be implemented. The maximum switching capacity of the relay is 250V AC at 1 A or 30V DC at 1 A, making the sensor suitable for direct control of controllers, actuators, or relays.

The supply voltage of the rain and snow sensor is 24 to 30V DC. The compact, corrosion-resistant housing is IP65-rated and designed for surface mounting. An automatic heating function activates at lower temperatures below 0°C / 32°F ambient temperature and heats the sensor surface to approximately 40°C / 104°F to prevent ice formation. This ensures that the rain and snow sensor works reliably even in frosty conditions.

Specification

General technical data	
Outputs	RS485, Relay
cable length	90 cm
Protection class (device)	IP65
Power supply	24 ... 30V DC
Operating conditions	-20 ... 60 °C , 0 ... 95 %RH
Storage conditions	-20 ... 60 °C , 0 ... 95 %RH
Dimensions (L x W x H)	75 x 90 x 37 mm
Weight	150 g

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