

RAIN SENSOR SA 10

SA 10 is designed for detecting and monitoring rain in HVAC applications.

The sensor provides a contact output to indicate the start of the rain and a 0...10 V signal to indicate the rain strength. The relay contact closes when the rain hits the sensor. The relay releases approximately after 5 minute delay after the sensor surface is completely dry. The sensor has an internal, automatically functioning heater that prevents the sensor from freezing in winter time.

NOTE: Sensor detects also snow. If the snow is "dry" and falls with a strong wind it cannot be detected.

Sensor can be installed on the wall by screws or on a mast by the band included in the package. The installing position must be selected so that the sensor can be cleaned if necessary. Depending on the conditions, the cleaning is recommended at least once a year. The sensor can be cleaned by a cloth wetted with a mild washing liquid.



Technical data

Supply	24 Vac/dc (22...28 V), < 5 VA
Measuring range	weak rain approx. 1 V, < 0.5 mm/h normal rain approx. 2...3 V heavy rain approx. 3...10 V
Output	0...10 V, 2 mA
Relay contact	normally open contact 60 Vdc 0.1 A
Ambient temperature	-40...+50 °C
Heating	built-in
Mounting	by a band to a mast (Ø25...60 mm) or by screws on the wall, hole distance 68 mm
Protection class	IP54
Materials	PBT, PC, PA and painted steel
Wiring terminals	1,5 mm ²
Dimensions	93 x 90 x 130 mm
Response time	approx. 20 s

Wiring:

1	Supply, 24 Vac/dc
2	0 V
3	output 0...10 V
4...5	normally open contact (NO) 60 Vdc, 0.1 A

Ordering guide:

Model	Product number	Description
SA 10	1136020	rain sensor

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).