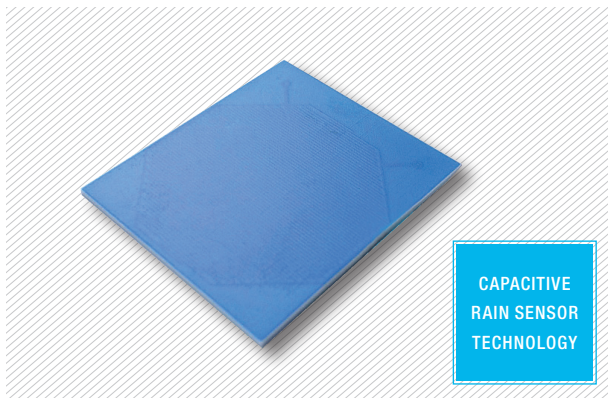


RAIN CAPACITIVE SENSOR



AUR°EL S.p.A: has developed a capacitive sensor-component able to notice the presence of water on its surface. It's realized on ceramic substrate and thanks to its sensitivity area is able to change the capacity depending on the ratio water accumulated on it.

The technology (glassy coverage of substrate) guarantees **high reliability** due to the great stability of the support and the inalterability of the surface "sensitive", also after cleaning with solvents and/or heavy external conditions of employment. A double layer of a dielectric material has been screen printed for giving an higher immunity against weathering problems. Moreover in presence of the water, the capacitance goes to high values compared to dry conditions and the ratio changing is over 400%.

On the back side of the capacity sensor it is available a NTC temperature sensor is available with a nominal resistance value of 100 KOhm at 25°C.

The NTC components can be used to monitor the environment temperature and to control the heater against hard environmental condition such as frost and dump deposits on the capacity area.

FOR THE NTC COMPONENT VALUES REFER TO EPCOS/ TDK P/N: B57471V2104J062 DATASHEET.

- Voltage supply: 12 VDC
- Consumption: 0.25 mA
- NTC: 100 KOhm/25°C
- Dimension: 30.5 x 35.56 x 2 mm

APPLICATIONS

- Control systems in home automation: awnings, venetian blinds
- Irrigation systems for agriculture & monitoring
- Weather stations
- Control systems in industrial automation

NOTE: Depending on quantities, it's possible to receive the capacitive sensor with cabling and connector, under customer request

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