Rain Sensor

A **rain sensor** is an electronic device used to detect the presence and amount of rainfall. It helps systems automatically respond when rain is detected.

How It Works:

- The sensor has a **sensing board** with conductive metal lines.
- When **raindrops** fall on the board, they create a **connection between the metal lines**.
- This changes the **electrical resistance** of the board.
- The sensor module converts this change into an **analog or digital signal**, which can be read by a **microcontroller** (like CPX, Arduino, etc.).
- The microcontroller then performs actions such as **activating a wiper, closing a window, or turning off irrigation**.

Main Components:

- **Rain Detection Board** – detects rain through conductive tracks.
- **Control Module** – processes the signal and sends output (analog/digital).
- **Connecting Wires** – link the sensor to the microcontroller.

Connection Image: