

<b>Sensor</b>	<b>Description</b>	<b>Type of Data it Generates</b>
Temperature sensor	Measures room or ambient temperature	Numeric (°C or °F)
Humidity sensor	Measures the moisture level in the air	Numeric (% RH)
Light sensor (LDR)	Detects ambient light intensity	Numeric (lux)
PIR motion sensor	Detects human movement in an area	Boolean (motion detected: yes/no)
Ultrasonic distance sensor	Measures distance to objects	Numeric (cm or meters)
Door/window contact sensor	Detects if a door or window is open or closed	Boolean (open/closed)
Glass break sensor	Detects breaking glass	Boolean (detected/not detected)
Smoke/fire sensor	Detects smoke or fire	Boolean (smoke/fire detected: yes/no)
Gas sensor (e.g., CO, CO <sub>2</sub> )	Detects harmful gases in air	Numeric (ppm)
Water leak sensor	Detects water leaks or flooding	Boolean (leak/no leak)
Sound sensor	Detects noise levels	Numeric (dB) or Boolean (threshold exceeded)
Vibration sensor	Detects vibrations or movements	Numeric (acceleration) or Boolean
Energy/current sensor	Monitors electricity usage of appliances	Numeric (A, W, kWh)
RFID/NFC sensor	Detects presence of RFID/NFC tags	Text/String (tag ID)
Camera / CCTV sensor	Captures images or video for monitoring	Image/video data
CO <sub>2</sub> sensor	Measures carbon dioxide concentration	Numeric (ppm)
UV sensor	Measures ultraviolet light intensity	Numeric (mW/cm <sup>2</sup> or UV index)
Smart plug / switch	Monitors and controls appliance state	Boolean (on/off), numeric (power usage)
Pressure mat / smart floor sensor	Detects presence on a floor area	Boolean (occupied/unoccupied)
Rain sensor	Detects rainfall	Boolean (rain/no rain)