

Overview

Description of the product and intended use

This device **TCW1** is a sensor for a sensitive edge, with the ability to transmit by radio to a second device (the IBW or IRW interface), the data it captures regarding the state of the edge. These three elements (edge, sensor and interface) form a wireless detection and communication system (i.e. without the aid of electrical wires) between a sensitive edge and the control unit that controls the automation of a gate or a garage door or the like.

The system works as follows: when the sensitive edge intervenes due to an obstacle that is accidentally on the trajectory of the moving gate/door, the sensor TCW1 detects the motion and transmits it via radio to the interface (IBW o IRW). The interface reports the event to the control unit to which it is connected by cable. The control unit in turn controls the safety actions required (e.g., stopping and quickly reversing the maneuver in progress).

The **TCW1** sensor can be connected to two different types of sensitive edge: an 8.2 kohm constant resistance edge, or an edge with a OPEN-SHORT circuit,

The communication between the parts of the system is encoded with high safety techniques that enable all devices of the system to potentially fall under Category 2 of safety against failures, according to EN 13849-1.

It is powered by two 1.5V-alkaline battery AAA.