Installation manual

Switch Sensor

L2001641-D 24.07.2023

Keep this manual and packaging carefully as long as the product is in use!

The Switch Sensor can perform either or both of the following functions:

Switch detection

The Switch Sensor is a sensor that detects when a connected volt-free contact (e.g. double-pole switch or relay) closes. The Duco ventilation system with which the Switch Sensor is paired can – depending on the mode which has been set – perform one of the following actions when the contact closes:

- **Toilet detection (standard):** on closing the volt-free contact (e.g. light switch) the system will start ventilating in the zone in which the Switch Sensor is located. Depending on the duration of the volt-free contact closure, the system will carry on ventilating for a further period.
- **Overrule setting:** the ventilation system will ventilate at predetermined setting for as long as the contact is closed.
- **Heat pump:** the ventilation system will maintain a minimum flow rate if the Switch Sensor detects that the heat pump is active, such that the heat pump is always supplied with sufficient ventilation air for optimum efficiency.

These settings can be altered via the display menu on the DucoBox (if present) or IQ-unit, the Duco Ventilation App or Duco Network Tool.

Repeater

Like every Duco RF component, the Switch Sensor can amplify the signal from other components in the event of RF communication problems. This takes place automatically. Please refer to the **'RF communication'** information sheet on the website for further information.

Pairing

Please refer to the manual for the master (DucoBox, IQ unit, etc.) to which the Switch Sensor is to be connected.

LED indications

	RED (blinking slowly) Not in network **RED (blinking rapidly)** Logging in
	GREEN (blinking slowly) In network
	YELLOW (blinking slowly) Transitional phase (please wait)
	WHITE Volt-free contact is closed
	OFF Volt-free contact is open
	BLUE Component is displayed if changes are being put through via the master.

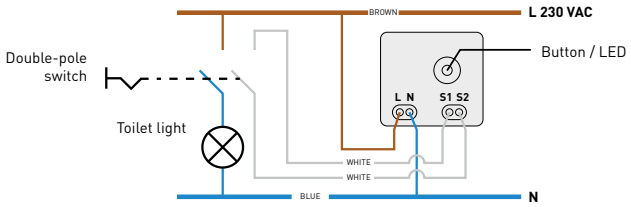
Wiring

Allow sufficient depth for fitting the Switch Sensor. (socket box at least 60 mm deep)

WARNING! If you do not have sufficient knowledge and experience of electrical connections, we would advise you not to proceed any further and to ask an electrician to do the installation for you. Otherwise you run the risk of injury or electrocution. Take care to ensure that the power is off while connecting. The Switch Sensor must be fused at no more than 16 A.

NB: S1 / S2 must never be connected to the mains! Applying 230 VAC to S1 / S2 may damage the Switch Sensor and make it unusable! To enable both light and ventilation to be controlled, two independent switching contacts / poles are needed. Please therefore use a **double-pole switch or relay**, for example.

S1 and S2 must not be connected if the Switch Sensor is only being used as a repeater.



Possible options with light operated by presence sensor.

- Minimum requirement for controlling Switch Sensor: 1 volt-free Normally Open (NO) contact / volt-free device control (= C2 on drawing below)
- Switching power: closing contact 3 A, 230 V, cos ø = 1
- Timed settings: 5 - 120 min