

Safety Edge™

STSE-2

Installation guide



For use with:



SCD™ series



SCD mini™ series



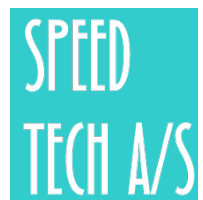
SCip Universal Receiver

Safety critical features:

- Complies with EN ISO 13849-1, category 2, PLd.
- Full class 2 integrity check of the entire signal path during each operation
- Automatic check of wireless communications during each operation.

General features:

- Compact design
- Allows wireless connection of safety edges or switches to the door controller
- Wide operating temperature span
- Tough IP 65 ABS/PC enclosure



Introduction:

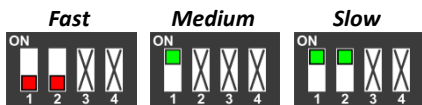
The Safety Edge™ is a battery powered monitoring device which allows for wirelessly connecting the safety edge on a moving door to a SCip™ compatible door controller such as the SCD/SCD mini series or a SCip Universal Receiver for 3rd part door systems. The wireless connection removes the need for wiring to any moving parts and thus increase the overall reliability of a system making it less susceptible to malfunction. The Safety Edge™ has a high level of safety and it supervises the connection continuously. The system is performing a complete test of the entire signal path from safety edge to controller at every door operation cycle. The intervals between transmissions is also faster when the door is closing so a detection of an error/collision is made quicker than at standby operation.

Configuring:

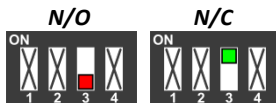
1.

Configure switch settings according to application.

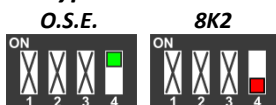
Transmit interval:



AUX input function:



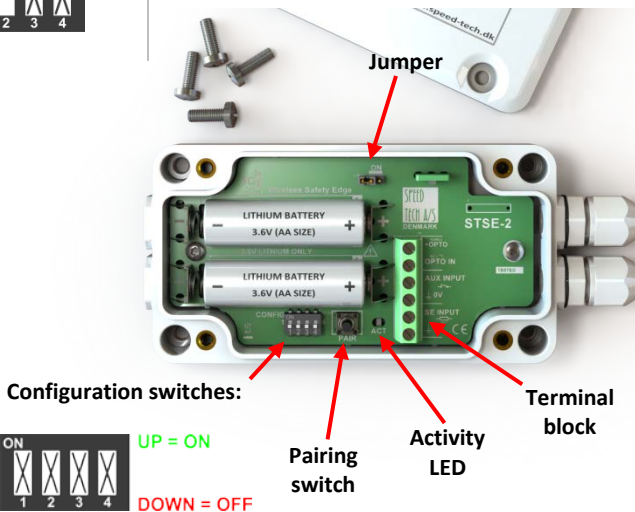
S.E. type:



2.

Move the jumper from **OFF** to **ON** Position to power on device. (Led flashes shortly).

If the device is stored, or unused for an extended period of time, move the jumper to off to preserve the battery.



This system must only be installed by a qualified person that has experience with automatic doors/gates and knowledge of the relevant EU standards.

MOUNTING & WIRING

Mounting:

The STSE-2 must be mounted in close proximity and on the same side of the wall as the controller in order to ensure the optimum radio connection.

If only one of the cable glands is used make sure to replace the unused with the spare blind gland supplied in the box. This is to prevent liquids and dirt from entering the enclosure and cause malfunction or damage to the product.

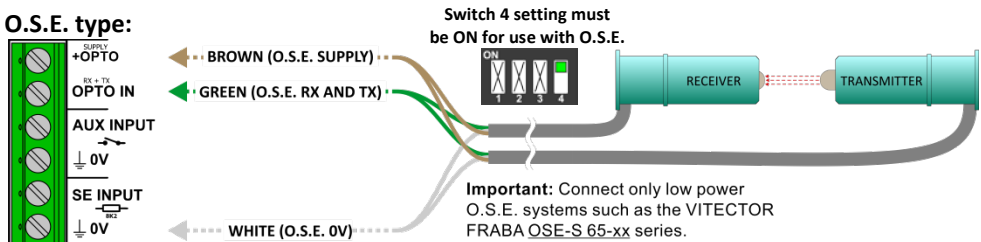


SW1 and SW2 can be set to either short, medium or a long interval between transmissions is used during standby. Longer intervals will cause the door controller to take longer time to enter active mode (door closing) but will increase the battery life significantly. **For safety reasons, the reaction time of a S.E. Activation is not affected.**

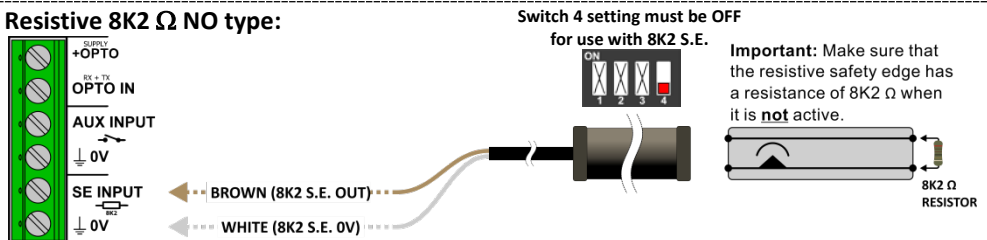
Wiring:

The STSE-2 accepts either resistive **8K2 Ohms NO** or **O.S.E. (Opto)** types.

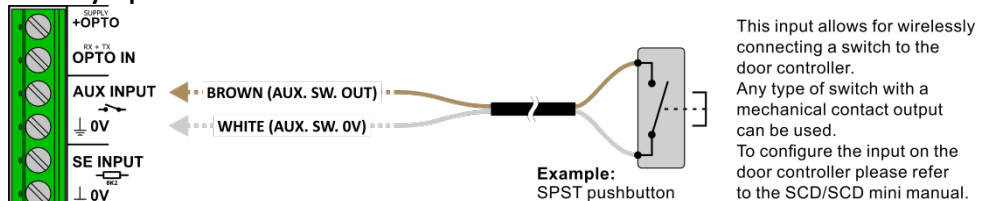
O.S.E. type:



Resistive 8K2 Ω NO type:

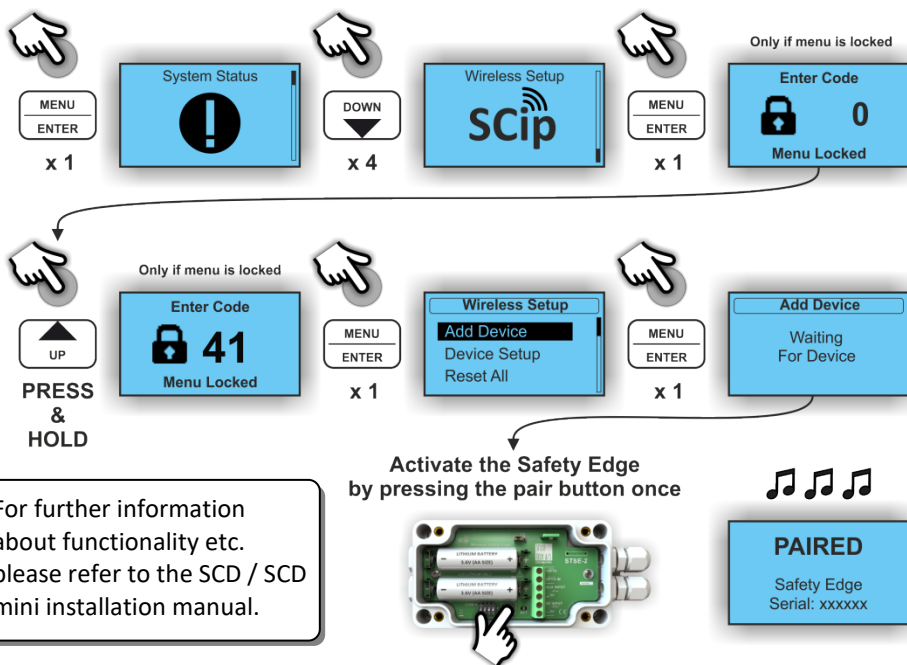


Auxiliary input:



ADDING AND TECHNICAL DATA

Adding the Safety Edge 2 to an SCD or SCD mini:



Technical data:



Wireless range (line of sight): 15m

Network type/frequency: 2.4GHz ISM band

Power supply: Battery powered, 2 x 3.6V Lithium-ion (size AA/FR6)
 Replace with the same type. It is possible to mount only one battery, but this reduces the battery life to the half.
Recycle used batteries – Do not throw in bin

Ingress protection rating: IP 65

Temperature range: -20 to +40°C

Dimensions: 160 x 65 x 25mm (including cable glands)
Mounting hole pattern: 51 x 116mm (Ø4 max.)

Weight: 180g (including 2 batteries installed)

Estimated battery life: **8K2:** 2 years (Depending on door usage and radio link quality and interference)
O.S.E: 1 year