

Key Features

The GfA ELEKTROMATEN Wireless Edge uses a bi-directional radio connection to replace the conventional spiral cable between a door's safety edge and control panel.

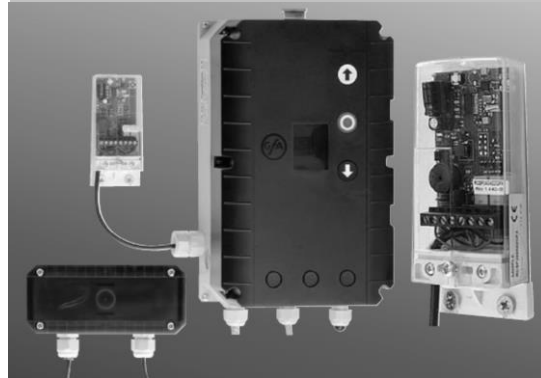
It is compatible with the Fraba Optoelectronic safety edge and contact edges with end of line resistor.

The wireless safety edge system comprises of a Master Unit fixed to the wall and connected to the TS 981 Door Control Panel and the Slave Unit fixed to the shutter and connected to the optoelectronic safety edge

KSR6P KSR6P/10 Wireless Optoelectronic Safety Edge Kit



INSTRUCTIONS



Technical Specification

General Data

Radio Frequency	2.4 GHz
Range	10m
Response Time	<100ms (during shutter motion)
Integrity Signal every 400 ms confirms radio connection and battery status	

Transmitter (Slave Unit)

Supply Voltage	(4x) 3.6V AA Li Batteries
Current	<20 mA

Enclosure:

Degree of Protection	IP65
Dimensions	40 x 158 x 38 mm

Compatible with:

Opto-electronic safety edge (plug-in low power consumption type)
Door-mounted switch (pass door, slack wire, shoot bolt)

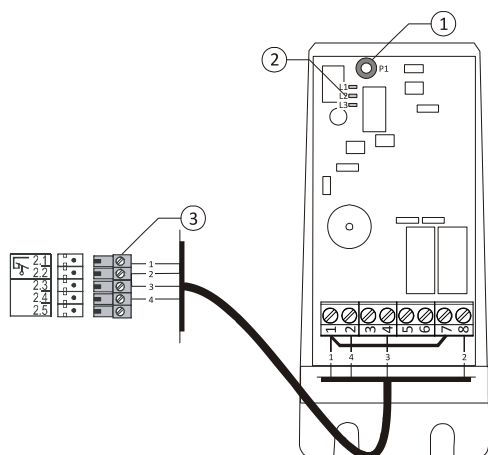
Receiver (Master Unit)

Supply voltage	12-24 V AC/DC
Current	<43 mA
Enclosure:	
Degree of Protection	IP54
Dimensions	118 x 52 x 25 mm
Pre-wired Cable	300 mm

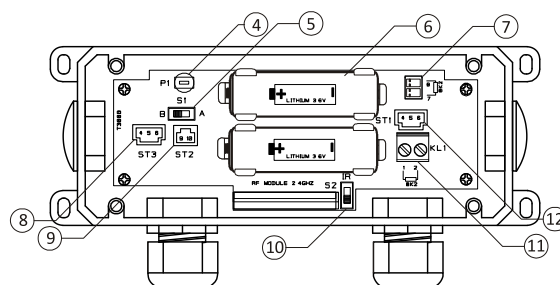
Compatible with:

TS 981 (Version SW 2.6 and above)

General Arrangement



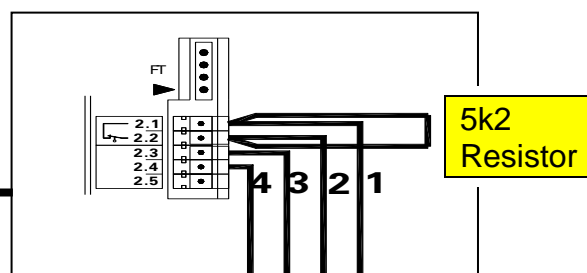
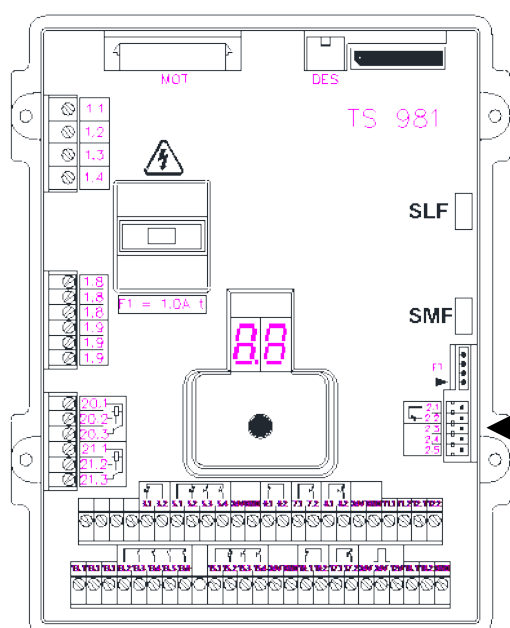
**Master Unit
(Receiver)**



**Slave Unit
(Transmitter)**

1. Master Unit programme button
2. LED Indicators
3. Plug-in connection to TS 981
4. Slave Unit programme button
5. Selector Switch – System 1, System 2
6. Lithium Batteries – 3.6V / 2600 mAh
7. Safety switch connection
8. Transmitter connection
9. Plug-in connection for safety switch
10. Selector Switch – A = Optoelectronic safety edge, B = Contact strip safety edge with 8k2 resistor
11. Connection for contact strip safety edge
12. Receiver connection

General Layout



Tip!

If the Shutter is not fitted with “Pedestrian Door” or “Slack Wire” switches Link the TS 981 control terminals 2.1 to 2.2.

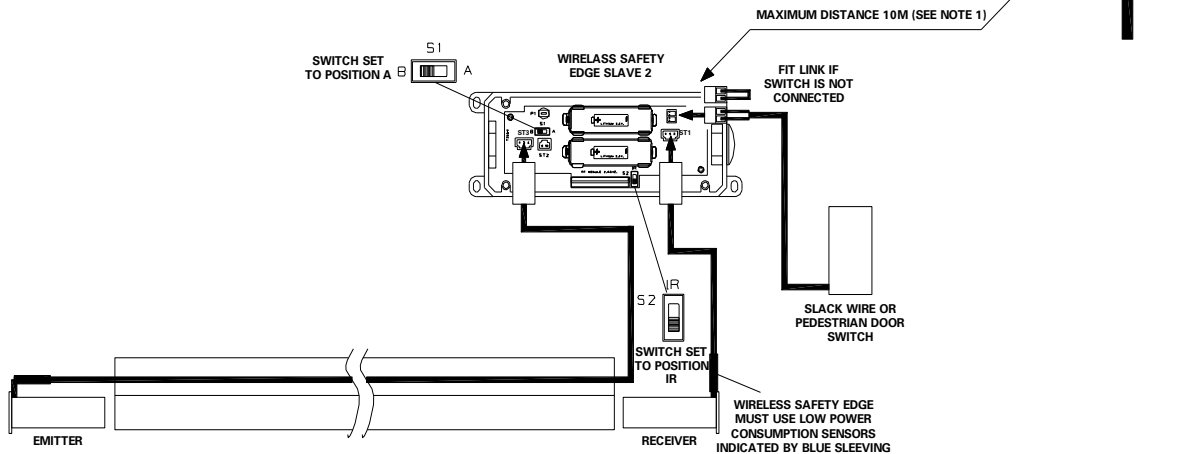
This will allow the shutter to continue to operate even if the wireless link fails i.e. slave unit flat batteries. The shutter will only close by maintained operation of the close button, dead man.

DO NOT REMOVE THE SAFETY EDGE MASTER CABLES 1 AND 2.

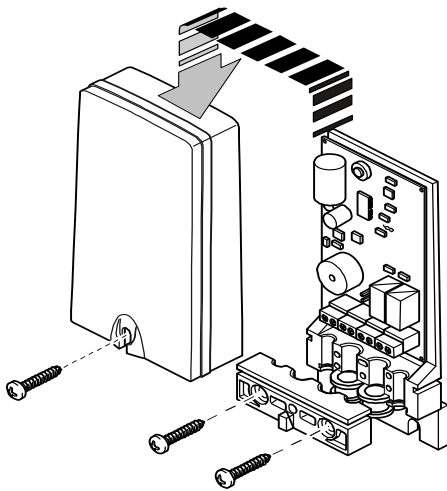
General Layout

Note 1:

The range of the wireless safety edge, master to slave, is 10m maximum. The master should be immediately adjacent to the shutter in line of sight with the slave unit. Any obstruction particularly metal work will reduce the range of the wireless link.

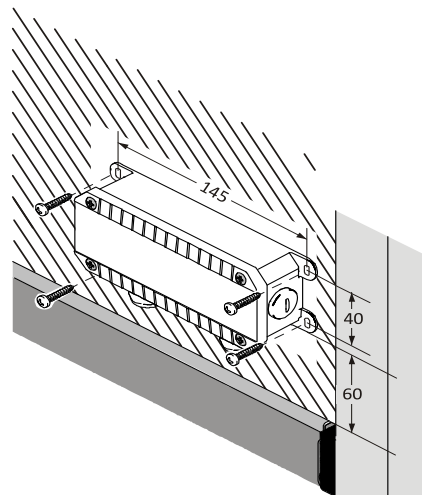


Installation



Master Unit

The Master Unit can be fitted inside the TS 981 control or fixed to the wall close to the control.



Slave Unit

The Slave Unit should be fitted to the bottom of the Shutter, in place of the safety edge junction box.

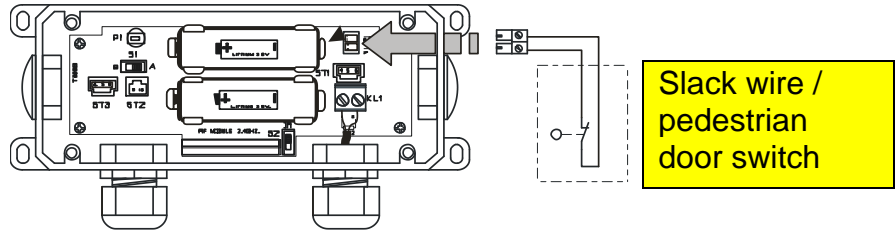
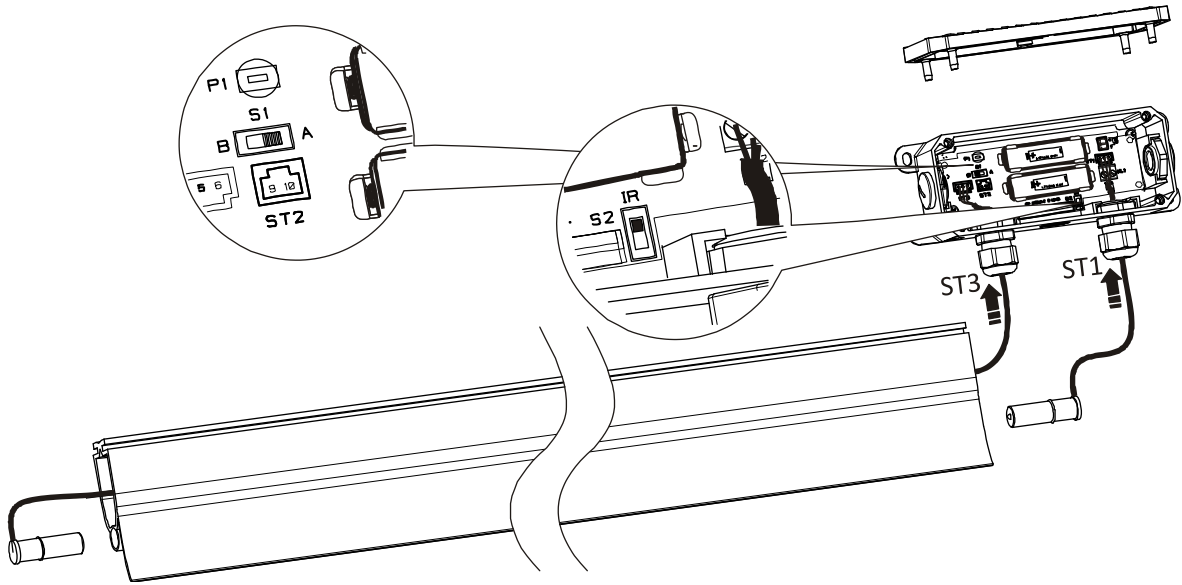
Attention

The Master Unit enclosure is rated IP54

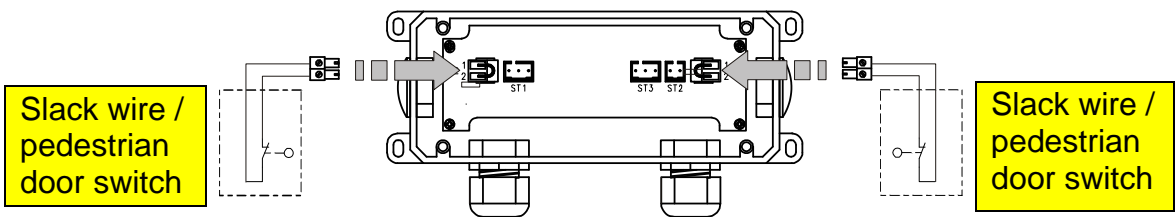
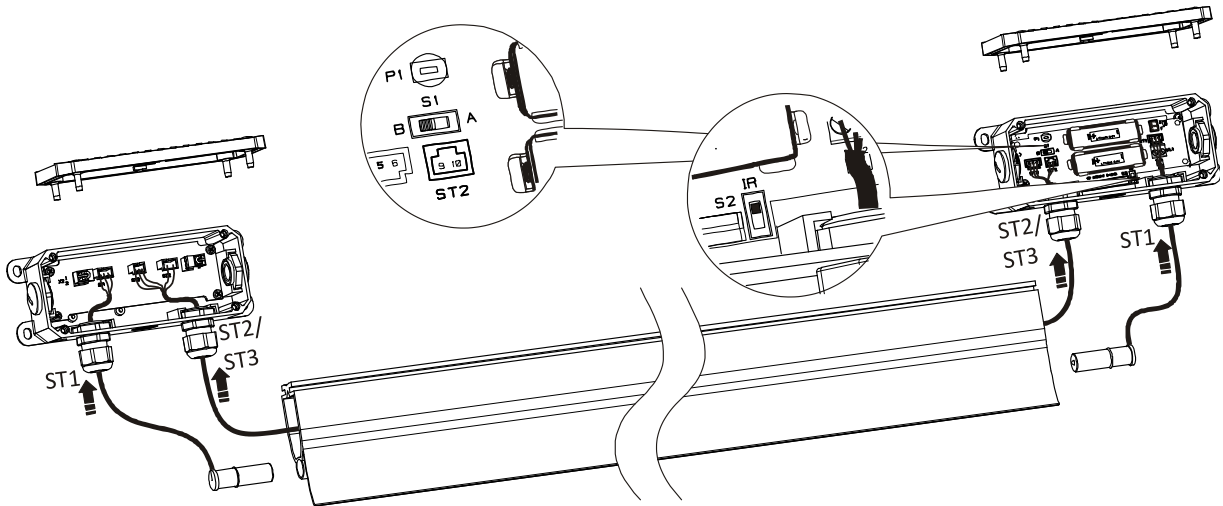


The Slave Unit enclosure is rated IP65. The cover must be fitted and all screws and glands correctly tightened to protect against water ingress

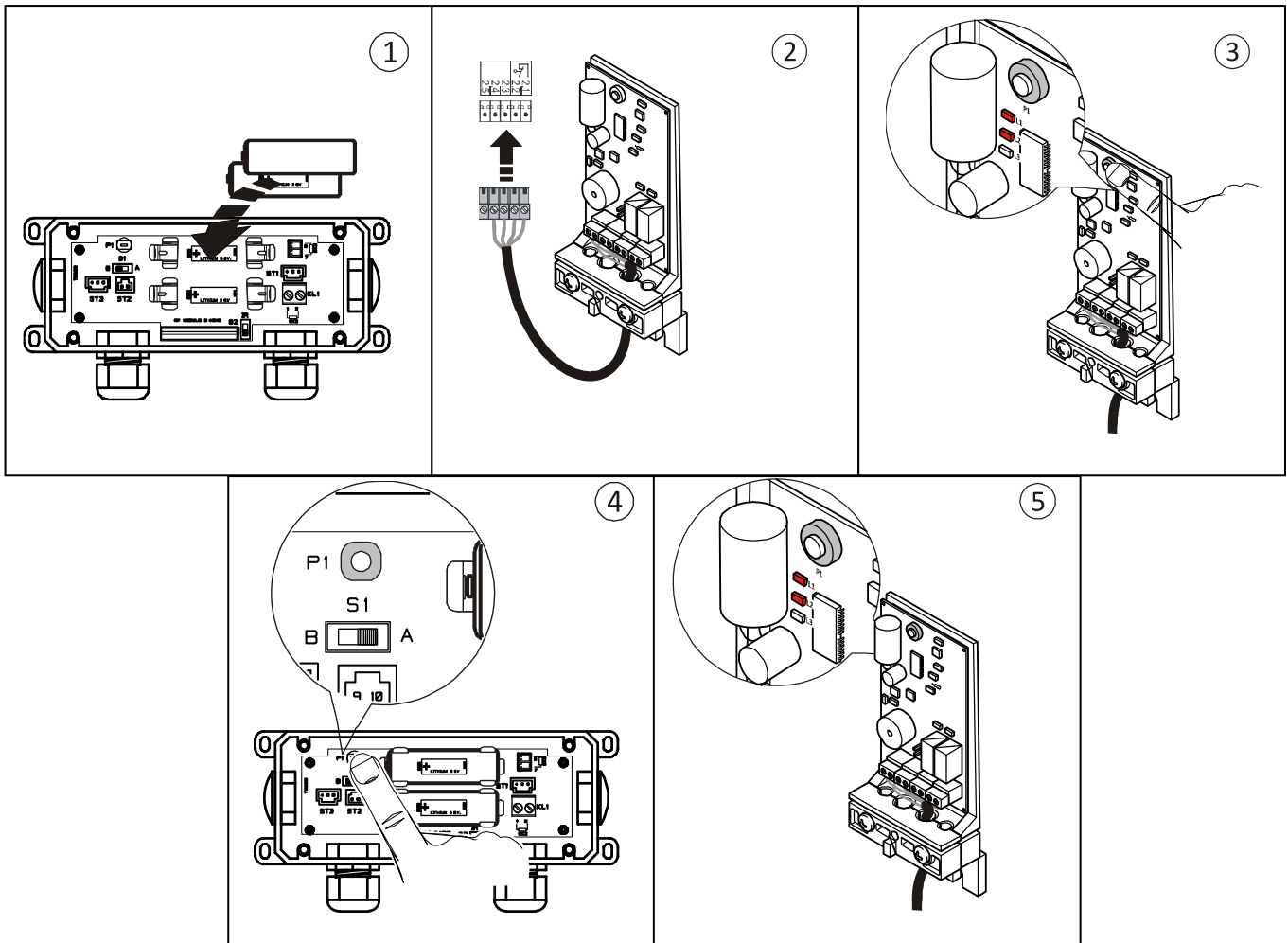
System 1



System 2



Programming



1. Fit the batteries into the Slave Module, observing the correct orientation
2. The Master Unit must be connected to the TS 981 control board
3. Press the programme button P1 on the Master Unit. LED's L1 and L2 will flash
4. Press and release the programme button P1 on the Slave Unit
5. When the Slave Unit is recognised by the Master Unit – LED 2 will flash and LED 1 will be OFF

Fault Indication

<p>LED 3 - On, continuous</p>	<p>Slack wire / pedestrian door switch circuit is open circuit. Check continuity of the switch.</p> <p>If a switch is not connected check that an 8K2 resistor is fitted to Slave Unit terminals X1.</p> <p>Check that the Slave Unit switch S1 is set for the correct System type 1 or 2.</p>
<p>The Control does not react to operation of the slack wire or pedestrian door switch.</p>	<p>The 8K2 resistor connected to the Slave Unit terminal X1 was not removed before programming. Remove the resistor and re-programme the Master / Slave units.</p>
<p>LED 2 - On, continuous</p>	<p>Safety Edge fault The maximum unobstructed distance between the Master Unit and the Slave Unit must not exceed 10m. Check the Slave Unit batteries and replace if necessary (4x 3.6V Lithium Batteries). Re-programme the Slave to Master Unit. Check that the Safety Edge is straight. Test the sensors.</p>



Battery Replacement

Replace the batteries with 3.6 V AA non-rechargeable Lithium batteries **ONLY**.
Use the highest capacity available, ideally 2600mAh (2.6Ah) or higher.

Batteries can be obtained from:

RS Components 2600 mAh - Stock no. 201-9438

Farnell 2600 mAh - Stock no. 1865216

Replace all batteries together observing the correct polarity.

Standards / Certifications

Is in accordance with the following Directives:

89/336 EEC (EMC Directives) and subsequent amendments concerning Electromagnetic Compatibility

Directive 1999/5/EC in accordance with the Radio & Telecommunication Terminal Equipment

73/23/ECC Low Voltage Equipment

The following Standards have been applied:

EN 301 489-3, EN 302 489-1, EN 300 328, EN 60950.1, EN 50081-1, EN 61000.6.2, EN 61000.6.3, EN 954-1 category 2

Supplied by:

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