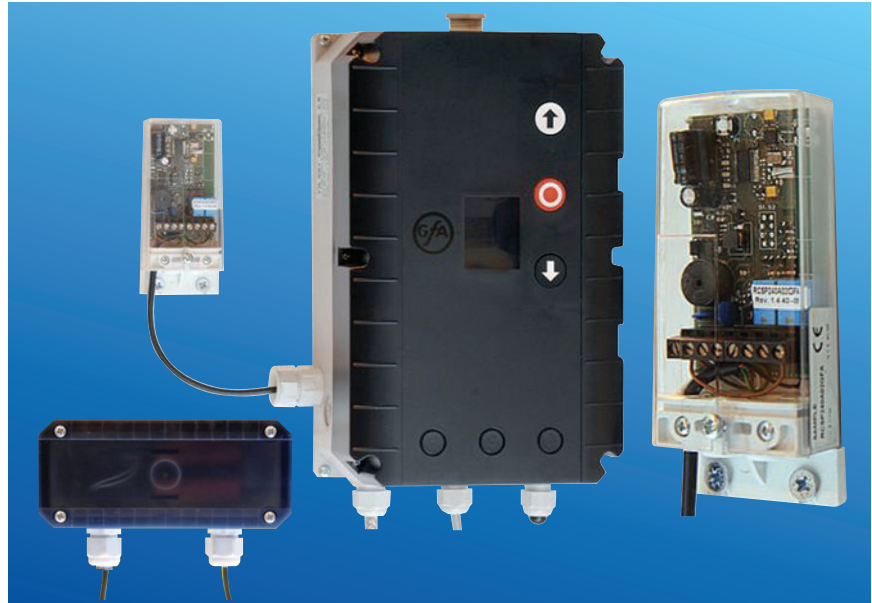


Wireless Safety Edge

Wireless Safety Edge for Industrial and Commercial Applications

- **2.4 GHz bi-directional radio communication**
- **Long battery life**
- **Safety Category 2 BS EN 13849-1**
- **Automatically adjusts the operating frequency during set-up to prevent cross coupling of safety edges on adjacent doors**
- **Low battery warning and monitoring**



Application

The Guthrie Douglas Wireless Safety 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 Opto-electronic Safety Edge and contact edges with end of line resistance. Safety category 2 BS EN 13849-1 when used in conjunction with the TS970 or TS981 control panel.

Improved Performance

The Wireless Safety Edge comes into its own on high usage/high speed doors, where wear and tear can cause spiral cables to fail within the warranty period, resulting in repairs having to be made at the door installer's expense. The Wireless Safety Edge is also ideal in public places, such as car parks, where spiral cables can be vandalised preventing entry shutters, grilles or gates from working. On the high street the edge could see the end of unsightly cables dangling across your customer's shop front. The radio system also allows very tall doors (up to 10m) to be automated when a spiral cable would not

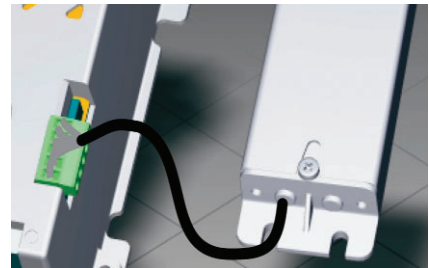
stretch far enough.

Compared with other wireless edges, the Guthrie Douglas system, operating at 2.4GHz, is less susceptible to radio interference, due to its high operating frequency. Multiple adjacent doors can use the system without risk of interference as during set-up the system checks for other radio signals and adjusts its frequency if any are detected. When used with our TS970 and/or TS981 control panels and Opto-electronic Safety Edge, a control signal auto-tests the safety edge before each movement of the door. If a problem is detected the door will only work in dead-man operation until the fault is rectified. Safety is further ensured by a signal sent between transmitter and receiver every 400 milliseconds to check the radio connection and battery status.

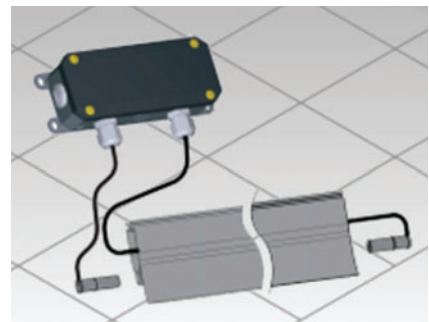
Simplified on-site commissioning

The Wireless Safety Edge receiver plugs into the TS970 and/or TS981 control panels for simple onsite connection. The door mounted transmitter fits onto the bottom of the door and when using the Fraba

low power consumption opto-electronic system the opto-sensors plug into this.



The transmitter also allows for door mounted interlock switches to be connected such as slack wire, wicket gate, shoot bolt interlock etc. without an additional transmitter. The system includes low battery voltage indication via an in built audible alarm and/or remote notification via a relay contact output.



Technical Specification

General Data

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

Transmitter (Slave Module)

Supply Voltage	2 x 3.6V Lithium Batteries, AA
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 Module)

Supply Voltage	12 – 24 V AC/DC
Current	<43 mA

Enclosure:

Degree of Protection	IP 54
Dimensions	118 x 52 x 25 mm
Pre-wired Cable	300 mm

Compatible with:

- TS970 (Version SW 4.0 and above)
- TS981 (Version SW 2.3 and above)

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

Accessories for use with wireless safety edge



KSR6P*
Wireless Safety Edge Kit (<6m)

KSR6P/10
Wireless Safety Edge Kit (<10m)



GF10045
Edge profile, roller shutters

GF10050
Bump stop for roller shutters

GF10085
Edge profile, sectional doors

GF10095
Bump stop for sectional doors

GF10100
Edge profile, high speed doors

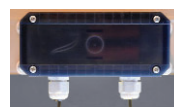
GF10110
Bump stop for high speed doors

GF40594
Mounting rail 3m

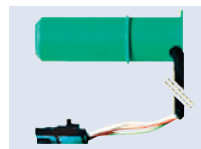


Radio Transmitter/Receivers

GF60010*
Radio Receiver only



GF60020*
Radio Transmitter only



Low Power Consumption Opto-Sensors

GF10023*
Low power consumption receiver

GF10035
Low power consumption transmitter

Replacement Batteries (not available from Guthrie Douglas)

3.6V 2.7Ah size AA
RS Stock No. 324-6748

*Illustrated

Guthrie Douglas

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Assessed to ISO 9001: 2008
Certificate No 193