F-Link 4

Supervised Telemetry Transceiver

features

- Mesh network signalling technology

- Up to 16 F-Link units can be networked

- Fully supervised with high immunity

- Self-healing for quick and easy unit replacement

- Informative LCD text display

- DIP switch configuration, no bespoke factory programming necessary

- Link monitoring in accordance with the relevant sections of BS5839-1:2017 (24.2b) and BSEN54-25:2008 (4.2.6)

The original Scope F-Link system has become a popular and secure way of remotely alerting and monitoring fire or security panels. The latest version adds even greater performance and improved functionality. F-Link is now housed in a larger case with plenty of cable entry points and an informative text display which provides status information and gives details of alarm messages.

A system consists of two or more F-Link units working together to form a mesh network with each unit operating as both a transmitter and receiver. The radio link between units is monitored for faults in accordance with the relevant sections of BS5839-1:2017 (24.2b) and BSEN54-25:2008 (4.2.6).

There is an additional output on the Master unit for connection to an optional paging transmitter, which sends alarm and fault messages to pocket pagers.

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Specifications

Footprint: (H) 190* x (W) 335 x (D) 70 mm
[*355 mm with 1/4 wave antenna]

Clearance: allow minimum 200 mm clearance on all sides

Supply Voltage: 10-30V DC

Power Consumption:
~50mA (standby)
~300mA (transmitting)
+25mA per active relay

Transmitter Output: 500mW max

Frequency Range: 458.5125MHz - 458.9375MHz

Channel Spacing: 12.5KHz

Receiver Blocking: > -27 dBm

Receiver Sensitivity: -117dBm

Approvals:
CE marked
ROHS Directive 2011/65/EU
Radio Equipment Directive 2014/53/EU

Standards Applied:
EN 300 220-1 V3.1.1 (Radio)
EN 301 489-1 V2.2.1 (EMC)
EN 60950-1: 2006 + A2: 2013 (Safety)

UK Licence Requirement:
None (licence-free SRD frequencies)

Operational Features

The front panel display indicates active zones, unit status, network/radio status and the received signal strength of incoming transmissions. A button is provided to mute the internal fault sounder, and a keyswitch allows the unit to be reset or placed into test mode.

The Identity and radio operating frequency of each unit is set using dip switches, allowing for rapid and fuss-free installation.

Where required, additional features can be programmed using Windows-based configuration software (available from Scope). Software-configurable options include: text descriptors for each Node and each zone event; zone input type; and output relay operating mode. Programmed settings are wirelessly distributed by the Master unit to all installed Nodes.

An optional F-Link paging transmitter can be added to the system to send alarm and fault event descriptions to portable radio pagers. An optional interface can also be specified to provide a serial data output for logging purposes.

Inputs:	4 x volt-free zone inputs (Can be set to normally-open or normally-closed)
	1 x volt-free fault input (680Ω end-of-line, triggered by open- or short-circuit)
	1 x volt-free remote reset input (normally-open)
Outputs:	4 x configurable volt-free zone output relay
	1 x fault/test output relay
	(all changeover relays 50V 0.5A max)
Text descriptions:	Individual Node name (16 characters)
	4 x input trigger messages (16 characters each)
	4 x input clear messages (16 characters each)
Control ports:	USB port for programming function
	9-pin RS232 port for interconnection to Scope paging system
Configuration:	Node address and operating frequency via DIP switches
	Operation and function via PC software (available from Scope)
Footprint (mm):	330w x 190*h x 70d mm (*excluding aerial)