FG-EC
Digital Water and Base Sense Cable

Product Datasheet

- ► Digital Pin-Point Leak Location
- ► Embedded Microprocessor
- ► LED Status Indicator
- ► Detects Water and Base Liquids
- ► Made in Low Smoke Zero Halogen Material
- ► Pre-connected in Standard Lengths

Description

The TTK digital sense cable FG-EC detects and pin-points the location of water and base liquids leaks at any point along its length.

The FG-EC sense cable is designed for FG-SYS, FG-NET or FG-BBOX digital units to respond intelligently in the event of any leaks of liquids.

Each FG-EC sense cable is made with special **Low Smoke Zero Halogen materials**, it emits limited smoke and no halogen when exposed to high sources of heat.

Features & Benefits

FEATURES

- Available in standard and pre-connected lengths of 3, 7 and 15 metres. They can be interconnected to provide an expandble network of leak detection.
- The cable contains an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication to the TTK digital units.
- Each cable has a high visibility LED to provide quick green/red identification of the cable status:
  - Green LED: normal status, no alarm raised;
  - Red LED: leak detection on the cable;
  - LED off: cablebreak on this or any upstream cable.
- Small diameter, light, flexible and in an easily identifiable light blue colour.
- Ingenious design: four conducted wires of helical construction, compressed and connected on an extruded central core, insensitive to dust and metal particles contamination, preventing false alarms.

- Fixing clips available to fasten the sense cables.
- A set of TTK BUS 8723 jumper cables and connection accessories gives continuity to each circuit.
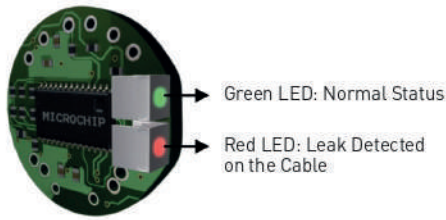
BENEFITS

- Detects and pin-points the location of a water/base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Manufactured with the low smoke zero halogen (LSZH or LS0H) materials, FG-EC cable emits, when burned, a less optically dense smoke that releases at a lower rate than a non-LSZH cable.
- Short drying time.
- The FG-EC sense cable is a non-absorbent design that can be reused after leaks, reducing the maintenance costs.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).
- The typical applications are data centres, trading floors, high value and mission critical infrastructure.
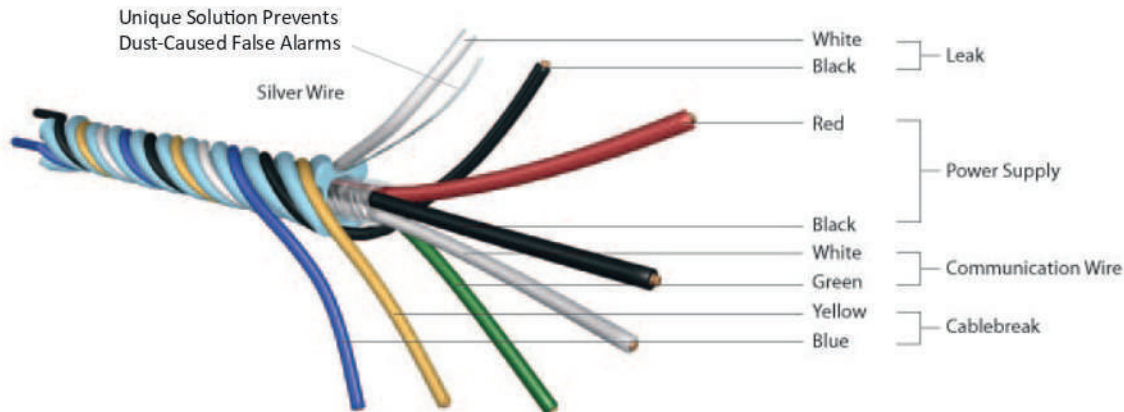
Technical Data

Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC
Maximum Operating Temperature	65°C
Maximum Length of Digital Sense Cable per Unit	Up to 120 lengths of FG-EC, connected to 3 circuits
Connector Type	FCI-Clipper
Weight	25g per metre without connector
Sense Cable Diameter	7,5 mm with jacket (without connector)
Four Sensor Wires Diameter	1,2 mm with jacket
Breaking Strengh for Sense Cable	Minimum 75 kg
FG-EC Colour	Light blue

Product Diagram

Embedded Microprocessor in Female Connector:

Green LED: Normal Status

Red LED: Leak Detected on the Cable

Female Connector with Addressable Electronic Module:

Unique Solution Prevents Dust-Caused False Alarms

Silver Wire

White / Black — Leak

Red — Power Supply
Black

White / Green — Communication Wire

Yellow / Blue — Cablebreak

Identification Codes

FG-EC15	Addressable Water Sensing Cable in 15m In Low Smoke Zero Halogen Material
FG-EC7	Addressable Water Sensing Cable in 7m In Low Smoke Zero Halogen Material
FG-EC3	Addressable Water Sensing Cable in 3m In Low Smoke Zero Halogen Material
Accessories	
FG-NC(x)	'TTK Bus 8723' Neutral Cable Xm With Connectors
FG-TMC	Digital End Plug for FG-EC/AC Cables
FG-CLC	Leader Cable 3,5m, on 'TTK Bus 8723'
FG-DTC	Diversion Box for 'TTK Bus 8723'
FG-DTCS	Addressable Box for one Water or Acids Cable, on 'TTK Bus 8723' (Sector Mode)
CF-EC100	100 Hold-down Clips with adhesive for Water & Acids Cables
ES-EC	40 Tags for Water & Acids Cables

Certificates

FM Approvals — Member of the FM Global Group

CE

TÜV GS

FG-EC meets the Low Smoke Zero Halogen requiremnt, test performed by LCIE. Test report N° 92634-584827Cr2009/07/20.
FG-EC of as a part of FG-NET system, meets the requirements of FM. Original Approval Job Identification:PR456641.
FG-EC of as a part of FG-SYS system, meets the requirements of all European Standards in EN 50081 and EN 50082 EMC.
FG-SYS system meets the TÜV requirements, according to IEC 61010-1/A2.