FG-EC
Digital Water and Base Sense Cable

Product Datasheet

► Digital Pin-Point Leak Location
► Embedded Microprocessor
► Water and Base Liquids Detection
► Made with Low-halogen Materials

Description

The TTK digital sense cable FG-EC detects and pin-points the location of water and base liquid 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 liquid leaks.

Each sense cable is manufactured with **low-halogen materials, limiting flame spread and smoke production**. This meets the requirements of the CPR regulation*.

*CPR (**Construction Products Regulation**) is a European Union regulation that aims to ensure the safety, durability, and performance of construction products, particularly in the event of fire, particularly with regard to flame spread and smoke production.
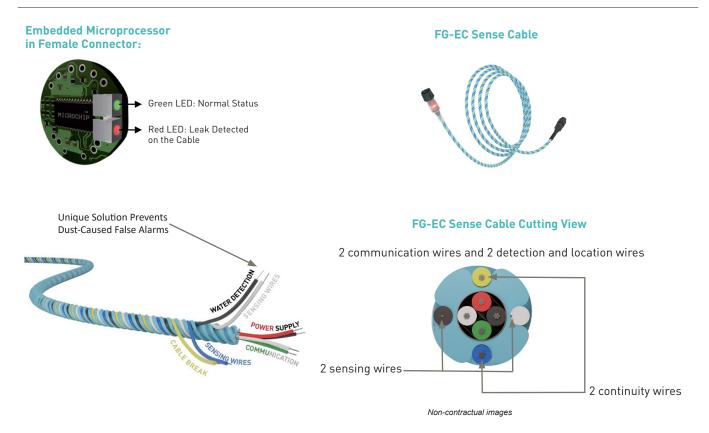
Key Advantages

- Available in standard and pre-connected lengths of 3, 7 and 15 m. 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 color.
- 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.
- Detects and pin-points the location of a water/base leak to the nearest foot along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Manufactured using low-halogen materials, the FG-EC cable emits smoke with lower optical density and slower dispersion when exposed to high heat, compared to standard cables.
- 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.
- The typical applications are data centers, trading floors, high value and mission critical infrastructure.

Technical Data

Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC
Reusability	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
Drying Time for Cable After Leak	Less than 10 seconds
Sense Cable Nominal Diameter	7.5 (± 0.5 mm)
Central Core Material	LSF (Low Smoke and Fume)
CPR (Construction Products Regulation) Classification	Dca: moderate performance, ensuring reliable performance in standard building applications
Sense Cable Weight (3, 7, 15 m)	0.3 kg, 0.5 kg, 1.0 kg
Minimum Bend Radius	20 mm
Colour	Light blue
Operating Temperature	-15°C to +55°C (Note: The sense cable itself is rated for temperatures up to +85°C.)
Connector Ingress Protection	IP 67

Product View

Embedded Microprocessor in Female Connector:

→ Green LED: Normal Status

→ Red LED: Leak Detected on the Cable

FG-EC Sense Cable

Unique Solution Prevents Dust-Caused False Alarms

WATER DETECTION
SENSING WIRES
POWER SUPPLY
COMMUNICATION
CABLE BREAK
SENSING WIRES

FG-EC Sense Cable Cutting View

2 communication wires and 2 detection and location wires

2 sensing wires

2 continuity wires

Non-contractual images

Identification Codes

FG-EC3	Addressable Water Sense Cable in 3 m
FG-EC7	Addressable Water Sense Cable in 7 m
FG-EC15	Addressable Water Sense Cable in 15 m
Accessories:	
FG-CLC	Leader Cable, on TTK Bus 8723
FG-TMC	Digital End Plug for Water & Acids Cables
FG-NC´N´	TTK Bus 8723 Neutral Cable ´N´ (1, 10, 15 m) with Connectors
CF-EC100	100 Hold-down Clips with Adhesive for Water & Acids Cables
ES-EC	40 Tags for Water & Acids Cables

Certification

FM APPROVED

CE

The FG-EC cable meets Euroclass fire safety requirements and is classified Dca by UL Laboratory, ensuring reliable performance in standard building applications.
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.