



- ▶ Designed for Liquid Cooling Applications
- ▶ High-sensitivity and Flexible Sense Cable
- ▶ High-visibility LED with Real Time Status
- ▶ Pre-equipped Sense Cable for Easy Setup
- ▶ Tight Space Friendly and Lightweight

## Description

The FG-DLC is a **point sensor designed to detect leaks of conductive coolant liquids**. It is pre-equipped with a specified length of sense cable and connects seamlessly to TTK digital units such as the FG-SYS or FG-NET, providing instant leak detection.

In the event of liquid leak on the sense cable connected on the FG-DLC, the device will blink red, and the connected digital unit will respond as follows :

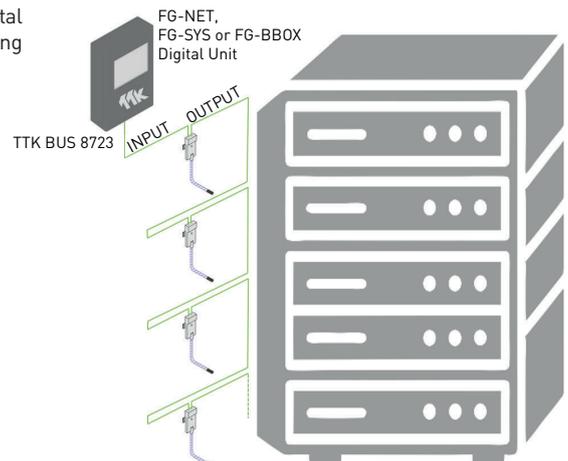
- An audible alarm is triggered and a relay is activated.
- The details of the fault (the type of fault: leak or cable break) and the address of the FG-DLC are displayed on the screen.
- Event report is sent to the BMS via MODBUS /JBUS protocol.

## Key Advantages

- Specifically developed for liquid cooling technique using conductive coolant fluids in data center applications.
- Pre-equipped with a standard length (0.5 m, 1 m and 2 m) of sense cable for easy setup.
- Up to 40 FG-DLC can be connected to one circuit of a digital unit.
- High visibility LED to provide quick identification of the status in real time:
  - Blinking green: normal, no alarm.
  - Blinking red: leak detected on the box.
  - No LED light: cablebreak detected on the box or loss of communication.
- Two fixing eyelets on the sides.
- The FG-DLC detects rapidly a liquid leak that comes in contact with it.
- The FG-DLC detects any break or cut to the cable.
- High-sensitivity and enhanced durability sense cable.
- The FG-DLC is tight space friendly, its compact design is ideal for confined spaces like server racks in data centers, drip trays, banded areas, and more.
- Flexible and lightweight sense cable, designed for easy handling and adaptation to various installation environments.
- A simple bi-annual test is all that is required.

## Connection Schematic

- Maximum: 40 FG-DLC (40 addresses) connected to one circuit of a Digital Unit.
- In the schematic, INPUT corresponds to the TTK BUS 8723 cable coming from the Digital Unit; OUTPUT corresponds to the TTK BUS 8723 cable leaving towards the following FG-DLC.



# Technical Data

<b>Compatibility</b>	Digital units: FG-SYS, FG-NET, FG-BBOX
<b>Reusability</b>	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
<b>Sense Cable Material &amp; Nominal Diameter</b>	PE, 4 mm
<b>Sensor Wires Diameter &amp; Material</b>	PVDF, 1.2 mm
<b>Core Material</b>	PE
<b>Minimum Bend Radius</b>	10 mm
<b>Color</b>	Box: Translucent, sense cable: purple
<b>Operating Temperature</b>	-15°C to 55°C
<b>Ingress Protection</b>	IP 40
<b>Enclosure Type</b>	Polyamide (PA) UL94 V0
<b>Dimensions (W,H,D)</b>	27mm x 59mm x 16mm without eyelets 56mm x 59mm x 16mm with eyelets

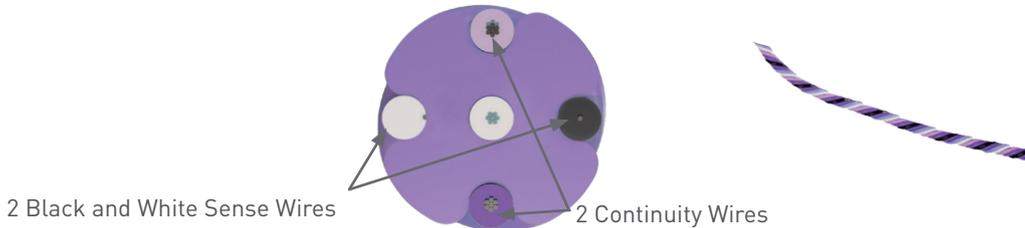
# Product Information

INPUT TTK BUS 8723      OUTPUT TTK BUS 8723



## Four Wires Sense Cable:

2 Return Wires and 2 Wires for Leak Detection



# Identification Codes

<b>FG-DLC0.5</b>	Length of Sense Cable in 0.5 m Preconnected to a Digital Diversion Device
<b>FG-DLC1</b>	Length of Sense Cable in 1 m Preconnected to a Digital Diversion Device
<b>FG-DLC2</b>	Length of Sense Cable in 2 m Preconnected to a Digital Diversion Device

# Certification



All TTK sense cables are designed as a part of the leak detection system and were used for the approval certification for TTK monitoring panels.

- FG-NET and FG-SYS are UL Listed.
- FG-NET system is certified FM7745.

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