

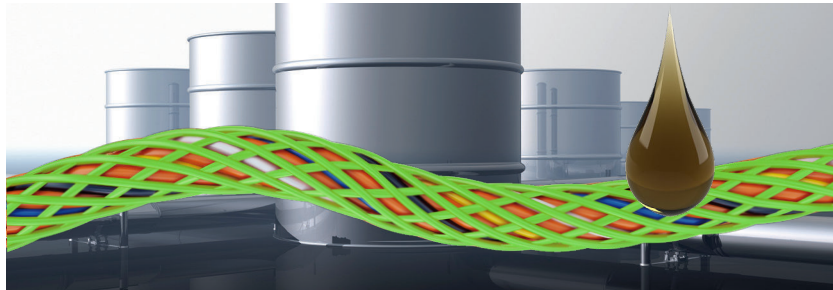


LIQUID LEAK DETECTION SYSTEMS
OIL & GAS DIVISION

FG-ODC+

High Sensitivity Addressable Oil Sense Cable

Product Datasheet



- ▶ Very High Sensitivity
- ▶ Very Fast Response with Light and Middle Distillates
- ▶ Sensitive to Heavy Oils and Hydrocarbon Vapors
- ▶ Leak Location on Section Length
- ▶ Re-usable and Pre-connected Cable
- ▶ Suitable for Explosive Area Service
- ▶ Insensitive to Water and Inorganic Pollutants

Description

- FG-ODC+ is a digital sense cable with very high sensitivity for detection and location of liquid hydrocarbons and liquid insoluble in water and their vapors, along the entire length.
- It allows multiple leak detection and location thanks to independent digital addressing, enabled by an embedded microchip in each FG-ODC+ sense cable.
- The sensor element is optimized for very fast response with light to middle distillates, and is sensitive to heavy oils such as conventional crude oils, dilbit / synbit, as well as to hydrocarbon vapors.
- Can be installed in humid environment, as it is insensitive to water and inorganic contamination.

Features & Benefits

FEATURES

- Standard length 9 ft (3 m) sensor sections.
- Microcontroller embedded in each FG-ODC+ sense cable allowing independent digital transmission to the alarm unit.
- Standard length sense cable provided with built-in plug-socket connector.
- Structure of the sense cable comprising a silicon sensing wire, a continuity wire, a communication wire (proprietary bus) and the power supply wires. Protective external PE braid built on the cable.
- Intrinsically safe - can be used in classified areas: Ex ia IIB T4 Ga (IECEx "Zone 0").

BENEFITS

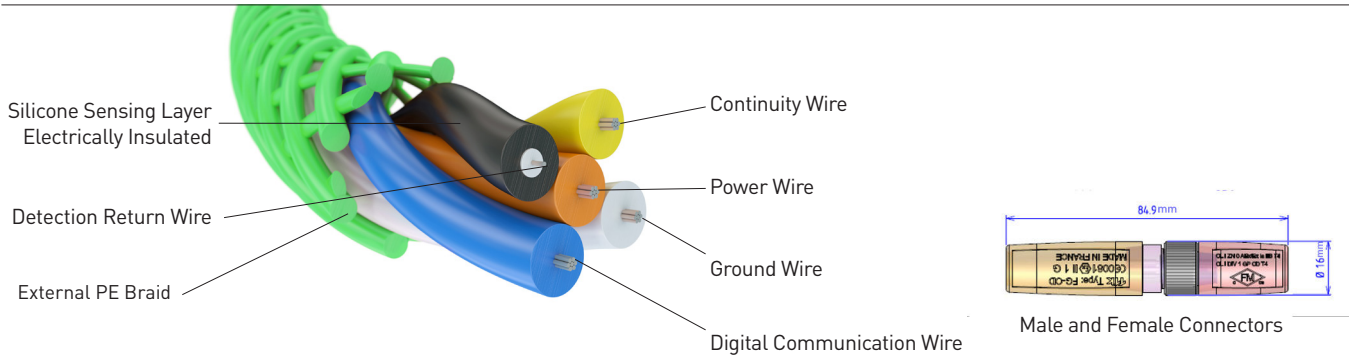
- Reliable detection:
 - Sensitive to heavy oils and vapors.
 - Insensitive to water, inorganic pollutants and external loads (pressure).
- High sensitivity: examples of detection time: **Diesel at 2-5 minutes (*), Gasoline: less than 1 minute (*).**
- Detects and locates hydrocarbon leaks on the section length.
- Can be reused, provided that heavy hydrocarbon residues are thoroughly cleaned.
- The same unit FG-NET can be connected to FG-ODC+ sense cables and mixed with water or acids / bases sense cables at the same time.
- Easy to install and remove: standard FG-ODC+ cables pre-connected with male / female connectors.

Note (*): depending on liquid composition and leak conditions

Connectivity & System Capacity

Connectivity	Digital units: FG-NET, FG-NET-LL, FG-ALS8-OD, FG-ALS4-OD, FG-A-OD, FG-STAD Satellite devices: FG-BBOX, FG-BBOX-LL Compatible with sector or linear water or acids / bases sense cables
System Capacity	9 ft (3m) standard length per FG-ODC+ sense cable Up to 59 x FG-ODC+ sense cables per digital unit circuit - depending on overall circuit length 3 circuits per FG-NET, 2 circuits per FG-BBOX

Cable Structure



Technical Data

Cable nominal diameter	0.39 in (10 mm)
Connector nominal diameter	0.63 in (16 mm)
Cable nominal weight	0.047 lb/ft (70 g/m)
Min. bending radius	1.57 in (40 mm)
Max. Pressure	3 bar
Min. Max. working temperature	-22° ≤ Tamb ≤ 212°F (-30° ≤ Tamb ≤ +100°C)
Direct burial	Possible
Maximum tensile strength (incl. connection)	88 lb (40 kg)
Expected life span (at working conditions)	>10 years
Explosive area classification	Ex ia IIB T4 Ga (ATEX "Zone 0")
Connector protection index classification (DIN/EN/IEC60529)	IP 68

Identification Codes

FG-ODC+ 3	Addressable Oil Sense Cable in 9 ft (3m) with Connectors
FG-ODC+ Lxxyy/xyyy/xyyy	Pre-Assembled Addressable Oil Sense Cable with Connectors xx =Length of Sections, yy = Number of Sections i.e.: FG-ODC+L0304: Pre-assembled 4 Lengths of Cables FG-ODC+L : 4 Sections of 9 ft (3m)
Accessories:	
FG-DOD KIT	Kit Including FG-DOD Interface Box + FG-CLOD Leader Cable + FG-TMOD End Plug
FG-CLOD	Leader Cable, on 'OD Bus 8771'
FG-TMOD	Digital End Plug on 'OD Bus 8771'
FG-NOD 'N'	'OD Bus 8771' Neutral Cable 'N' 3, 10, 22, 49, 98 ft (1, 3, 7, 15, 30 m) with Connectors
ES-OD	40 Tags for Oil Cable
CF-OD50	50 Hold-down Clips with Adhesive for Oil Cables

Certification



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