

- ▶ Full Addressable, Locating
- ▶ Fast Response, Re-usable
- ▶ Suitable for Explosive Area Service
- ▶ Insensitive to Water and Pollutions
- ▶ Pre-Connected

Description

- Digital sense cable for detection and localisation, along the entire length, of liquid hydrocarbons and non-conductive solvents possibly present on the cable.
- Multiple leak detection and localisation thanks to independent digital addressing, enabled by an embedded microchip in each FG-OD sense cable.
- Fast response.
- Re-usable after leak detection.
- Can be installed in humid environment, as it is insensitive to water.
- Designed to be connected to FG-NET, FG-SYS, FG-BBOX, FG-ALS4-OD alarm units.

Features & Benefits

FEATURES

- Standard length (3 m, 7m and 12m) sense cable or long line (3m, 7m, 12m, ..., 20m) section allowing optimised system architecture.
- Microprocessor embedded in each FG-OD sense cable allowing independent digital transmission to the FG-NET, FG-SYS or FG-ALS4-OD Alarm Unit.
- Standard length sense cable provided with built-in plug-socket connector.
- Long line provided with built-in intermediate embedded connections (for each section), plus connector at extremities on demand.
- Protective external PE braid built on the cable.
- Can be cleaned.
- Can be used in hazardous areas with explosive atmosphere - downstream Zener Barrier: Ex ia IIB T4 Ga (ATEX "Zone 0").

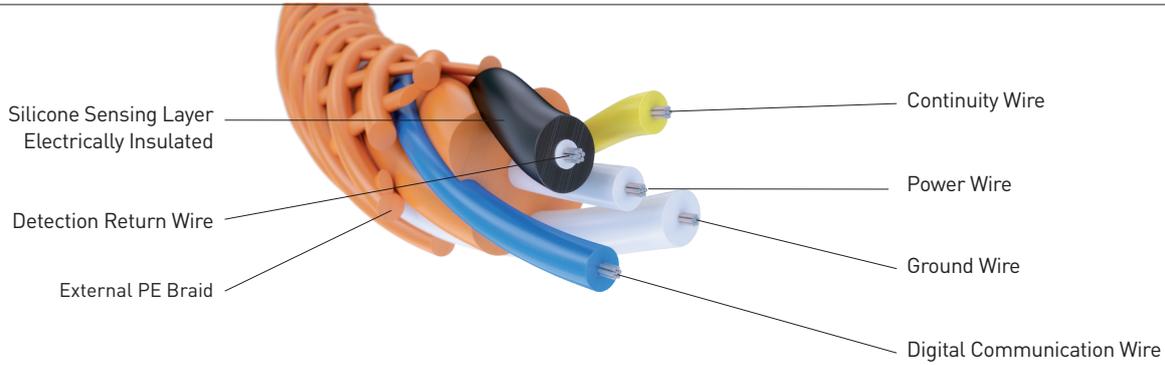
BENEFITS

- Quick detection times: typical values: Gasoline: 3-6 minutes (*), Diesel Oil: 15-30 minutes (*), Jet Fuels : 10-20 minutes (*).
 - Reliable detection: insensitive to water, small pollution, dirt, external loads (pressure).
 - Can be reused, allowing leak detection tests under real conditions.
 - The same unit FG-NET or FG-SYS can be connected to FG-OD sense cables and mixed with water or acids / bases sense cables at the same time.
 - Easy to install and remove: standard FG-OD cables pre-connected with male / female connectors.
- Note (*) : depending on liquid composition and leak conditions

Connectivity & System Capacity

Connectivity	Digital units: FG-NET, FG-SYS Alarm panel: FG-ALS4-OD Satellite devices: FG-BBOX, FG-BBOX-LL, FG-DOD Compatible with sector or linear water or acids / bases sense cables
System Capacity	3m, 7m, 12m standard length per FG-OD sense cable 40 x FG-OD sense cables per digital unit circuit 10 x FG-OD sense cables per FG-DOD interfacing box 3 circuits per FG-NET or FG-SYS, 2 circuits per FG-BBOX Long Line application: 3m, 7m, 12m, ..., 20m per FG-OD section 60 x FG-OD sense cables per digital unit circuit

Cable Structure



Technical Data

Cable nominal diameter	8.5 mm
Connector nominal diameter	12.6 mm
Embedded (Long Line) connection nominal diameter	12.2mm
Cable nominal weight (without connectors)	5.5 kg / 100 m
Min. bend radius	150 mm
Max. Pressure	5 bar
Min. Max. working temperature	-30°C ≤ Tamb ≤ +100°C
Reusable	Yes
Direct burial	Possible
Maximum tensile strength (incl. connection)	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 (>10 weeks at 5 bar)

Identification Codes

FG-0D12	Addressable Oil Sensing Cable in 12m with Connectors
FG-0D7	Addressable Oil Sensing Cable in 7m with Connectors
FG-0D3	Addressable Oil Sensing Cable in 3m with Connectors
FG-ODL xxyy/xxyy/xxyy	Pre-Assembled Addressable Oil Sensing Cable in {xx=length of sections, yy= number of sections}
Accessories:	
FG-DOD	Bus Interface, for Integration of FG-OD Cables
FG-DEx	Diversion Box for 'OD Bus 8771'
FG-CLOD	Leader Cable, on 'OD Bus 8771'
FG-TMOD	Digital End Plug on 'OD Bus 8771' for FG-OD Cable
FG-NOD N	'OD Bus 8771' Neutral Cable 'N' (30, 15, 7, 3, 1m) With Connectors
ES-OD	40 Tags for Oil Cable
CF-OD-50	50 Hold-down Clips with adhesive for Oil Cables

Certificates



TTK - Type: FG-OD
 CE 0081 Ex II 1 G
 Ex ia IIB T4 Ga
 LCIE 13 ATEX 3082 X
 LECEx LCIE 13.0072X

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