

- ▶ 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.
- FG-ODR cable is suitable for using with volatile liquids in confined environments.
- Multiple leak detection and localisation thanks to independent digital addressing, enabled by an embedded microchip in each FG-ODR 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-NET-LL, FG-SYS, FG-BBOX, FG-BBOX-LL or FG-ALS4-OD alarm units.

Features & Benefits

FEATURES

- Standard length (3 m, 7m, 12m and 20m) sense cable or long line (3m, 7m, 12m, ..., 20m) section allowing optimised system architecture.
- Microprocessor embedded in each FG-ODR sense cable allowing independent digital transmission to the FG-NET, FG-NET-LL, FG-SYS, FG-BBOX, FG-BBOX-LL 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").

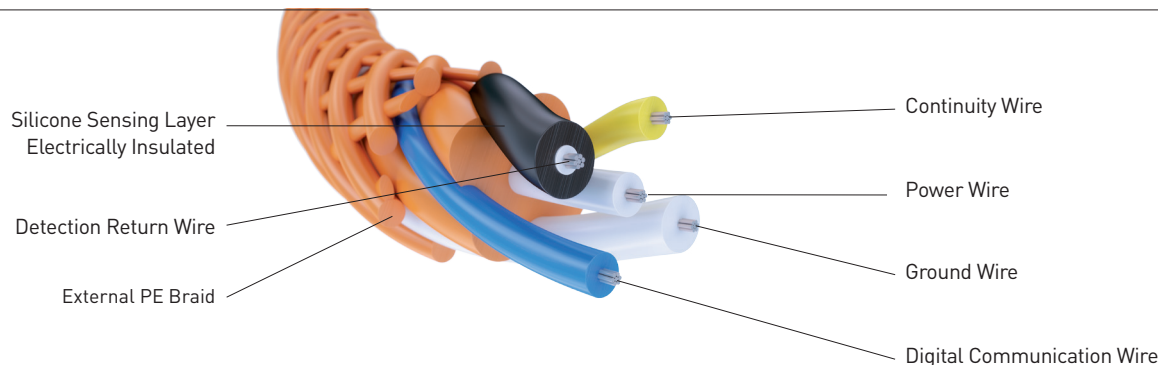
BENEFITS

- Quick detection times: typical values: **Gasoline: 6-9 minutes (*)**, **Jet Fuels: 30-60 minutes (*)**, **Diesel Oil: 50-90 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-ODR sense cables and mixed with water or acids / bases sense cables at the same time.
 - Easy to install and remove: standard FG-ODR cables pre-connected with male / female connectors.
- Note (*) : depending on liquid composition and leak conditions

Connectivity & System Capacity

Connectivity	<p>Digital units: FG-NET, FG-NET-LL, FG-SYS</p> <p>Alarm panel: FG-ALS4-OD</p> <p>Satellite devices: FG-BBOX, FG-BBOX-LL, FG-DOD</p> <p>Compatible with sector or linear water or acids / bases sense cables</p>
System Capacity	<p>3m, 7m, 12m and 20m standard length per FG-ODR sense cable</p> <p>40 x FG-ODR sense cables per digital unit circuit</p> <p>10 x FG-ODR sense cables per FG-DOD interfacing box</p> <p>3 circuits per FG-NET or FG-SYS, 2 circuits per FG-BBOX</p> <p>Long Line application:</p> <p>3m, 7m, 12m,..., 20m per FG-ODR section</p> <p>59 x FG-ODR sense cables per digital unit circuit</p>

Cable Structure



Technical Data

Cable nominal diameter	9.5 mm
Connector nominal diameter	12.6 mm
Embedded (Long Line) connection nominal diameter	12.2mm
Cable nominal weight (without connectors)	7 kg / 100m
Min. bending radius	200mm
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-ODR20	Addressable Oil Sensing Cable in 20m with Connectors
FG-ODR12	Addressable Oil Sensing Cable in 12m with Connectors
FG-ODR7	Addressable Oil Sensing Cable in 7m with Connectors
FG-ODR3	Addressable Oil Sensing Cable in 3m with Connectors
FG-ODRLxxyy/xyyy/xyyy	Pre-Assembled Addressable Oil Sensing Cable with connectors xx=length of sections, yy= number of sections i.e.: FG-ODRL2004: Pre-assembled 4 lengths of cables FG-ODRL : 4 sections of 20m
Accessories:	
FG-D0D	Bus Interface, for Integration of FG-ODR Cables
FG-DEx	Diversion Box for 'OD Bus 8771'
FG-CL0D	Leader Cable, on 'OD Bus 8771'
FG-TM0D	Digital End Plug on 'OD Bus 8771' for FG-ODR Cable
FG-N0D N	'OD Bus 8771' Neutral Cable 'N' (30, 15, 7, 3, 1m) With Connectors
ES-OD	40 Tags for Oil Cable
CF-OD50	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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