

# FG-ODR

## Refined Liquid Hydrocarbon and Non-Conductive Solvent Sense Cable

**Product Datasheet** 





- ► Fully Addressable
- ► Leak Location on Section Length
- ► Re-usable and Pre-connected Cable
- ► Suitable for Explosive Area Service
- ► Insensitive to Water and Pollutions

## 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.
- 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-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 alarm unit. Leak location on section length.
- 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").

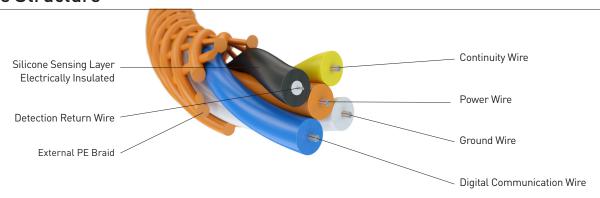
#### **BENEFITS**

- Detects and locates hydrocarbon leaks on the section.
- Typical values of detection times: 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 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	Digital units: FG-NET, FG-NET-LL Alarm panel: FG-ALS4-0D Satellite devices: FG-BBOX, FG-BBOX-LL Compatible with sector or linear water or acids / bases sense cables
System Capacity	3m, 7m, 12m and 20m standard length per FG-ODR sense cable 40 x FG-ODR sense cables per digital unit circuit 10 x FG-ODR sense cables per FG-DOD interfacing box 3 circuits per FG-NET, 2 circuits per FG-BBOX Long Line application: 3m, 7m, 12m,, 20m per FG-ODR section 59 x FG-ODR sense cables per digital unit circuit



## **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 67

## **Identification Codes**

FG-0DR20	Addressable Oil Sensing Cable in 20m with Connectors
FG-0DR12	Addressable Oil Sensing Cable in 12m with Connectors
FG-0DR7	Addressable Oil Sensing Cable in 7m with Connectors
FG-0DR3	Addressable Oil Sensing Cable in 3m with Connectors
FG-0DRLxxyy/xxyy/xxyy	Pre-Assembled Addressable Oil Sensing Cable with connectors
	xx =length of sections, yy = number of sections
	i.e.: FG-0DRL2004: Pre-assembled 4 lengths of cables FG-0DRL : 4 sections of 20m
Accessories:	
FG-DOD	Bus Interface, for Integration of FG-ODR 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-ODR 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-OD50	50 Hold-down Clips with adhesive for Oil Cables

## Certificates











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