Gas sensor
DST G290

For general HVAC purposes

Description

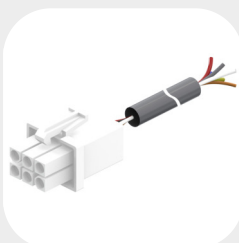The new A3 gas sensor is designed for use in general HVAC applications.
Accurate and compact leak detector designed based on IEC 60355-2-40 and compatible to customer's application specifications – both hardware and software.
Photoacoustic technology offers +15 years lifetime, immunity to poisoning, fast response time and reliable self-diagnostics.

Features & Benefits

- Designed for use with R290 (others on request)
- Output modes: Modbus RTU on RS485, Relay, Relay & Modbus
- Supply voltage: 5 V DC, 12-24 V AC/DC
- Designed for +15 years lifetime without calibration
- Self-diagnostics
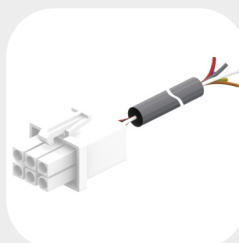- CE marked
- ATEX compliant signal relay

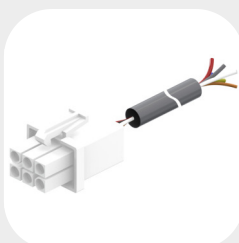## Accessories code numbers

073G0099

Accessories, sensors, Cable

Used for product: DST G, Parts included: Cable with plug 0,305 m I/80, Packing format: Industrial pack, Quantity per packing format: 80

073G0101

Accessories, sensors, Cable

Used for product: DST G, Parts included: Cable with plug 1,50 m I/80, Packing format: Industrial pack, Quantity per packing format: 80

073G0100

Accessories, sensors, Cable

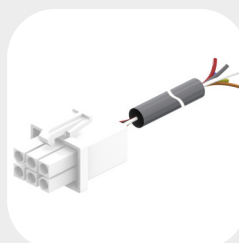Used for product: DST G, Parts included: Cable with plug 1,00 m I/80, Packing format: Industrial pack, Quantity per packing format: 80

073G0102

Accessories, sensors, Cable

Used for product: DST G, Parts included: Cable with plug 2,50 m I/40, Packing format: Industrial pack, Quantity per packing format: 40

Product details

General data

Table 1: Sensor specifications

Measuring Range	0 to 100% LFL
Alarm Threshold	15% LFL
Operating Temperature	-40 °C to 80 °C
Maximum Temperature (intermittent)	-40 °C to 105 °C
Storage Temperature	-40 °C to 80 °C
Operating Pressure	700 to 1200 mbar
Operating Humidity	0% to 100% RH
Enclosure Protection (EN 60529)	IP 55
Connector Protection (EN 60529)	IP 56 and IP57

Table 2: Performance specifications

Accuracy at ambient (15°C to 25°C), 0-25% LFL	±2.5% LFL
Accuracy across operating range, 0-25% LFL	±5.0% LFL
Response time	< 27 s
Sensor recovery time	< 5min in clean air
Mitigation recovery timer	5 sec – can be customized
Alarm response	Depending on the output mode: Relay open – LED red – Alarm flag
Reset setpoint	2,5% LFL below alarm setpoint

Table 3: Electrical specifications

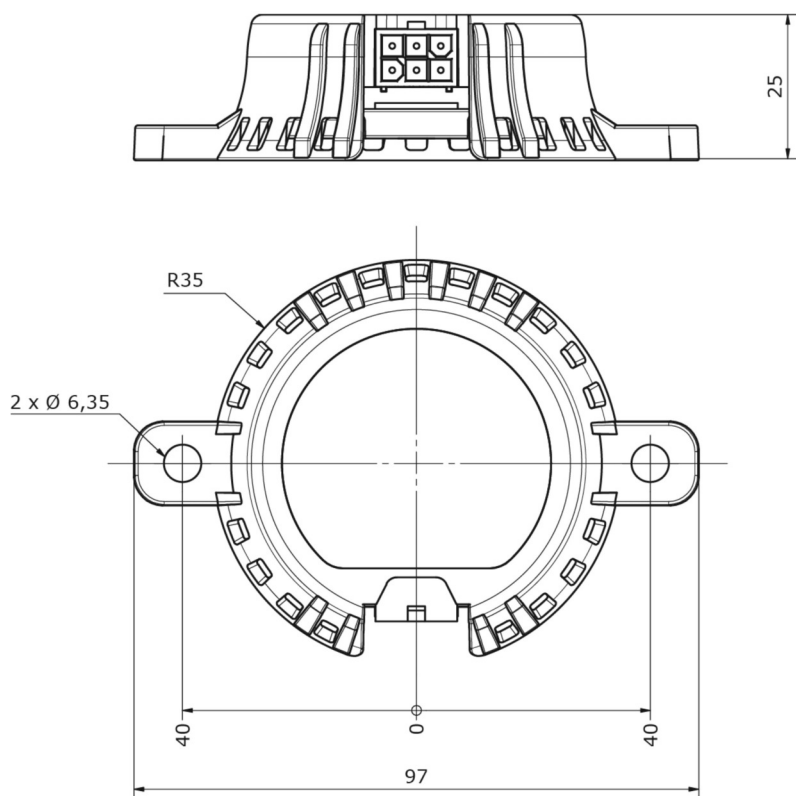| Output mode	Modbus	Modbus	Modbus & Relay[1]	Relay[1]
Supply voltage	12-24V AC/DC ±10%	5V DC ±10%	12-24V AC/DC ±10%	12-24V AC/DC ±10%
Power consumption	1.0W max 0.5W average	0.4W max 0.3W average	1.1W max 0.6W average	1.1W max 0.6W average
Digital output	RS485, 120Ohm termination included in sensor	RS485, 120Ohm termination included in sensor	RS485, 120Ohm termination included in sensor	-
Code number	073G2060	073G2061	073G2062	073G2063

[1] Relay information : 30V/1A max switching load (signal relay).

Table 4: Mechanical characteristics

Materials – Enclosure	PA66 25% glass filled(Top), PC(Bottom)
Materials – Electrical connection	Nylon
Net weight (depending on the format)	0.04 - 0.06 kg

Dimensions & weights

Figure 1: Dimensions

Disclaimer/Information:
Sensor stores diagnostic values for warranty analysis. Data can be provided by returning the product. Fee may apply.

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Manufacturer's Declaration	Manufacturers declaration 073R0006.00	Danfoss	Compliance misc. Standards
Manufacturer's Declaration	Manufacturers declaration 073R0007.00	Danfoss	ATEX
EU Declaration	EU-declaration 073R0004.00	Danfoss	EU RoHS
Electrical Safety Certificate	UL TEC-03911-M1	UL - Underwriters Laboratories inc.	Compliance misc. Standards

Contact details

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Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.

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