



Gas sensor

DST G200

Description

The new Danfoss Dual refrigerant sensor DST G200 is designed for use in the HVAC market with a specific focus on Residential, Heat Pump, Rooftop, & Chiller applications.

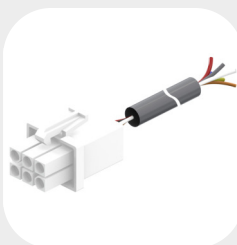
Our thermal conductivity technology offers rapid & accurate leak detection, +15 year lifetime, immunity to poisoning, automated self-calibration, and reliable self-diagnostics to avoid silent failures.

Our unique design is optimized to ensure performance over system lifetime even in harsh application environment as it is robust against Oil, Water Spray, dust, and UV light. Additionally, we have built-in flexibility in terms of hardware and software allowing for easy customization and system integration.

Features & Benefits

- Designed for use with R454B and R32
- customizable software
- Easy system check via LED status
- Patented, robust design
- Output modes: Modbus, Relay, Dual Output and Dual relay

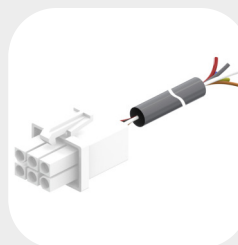
Accessories code numbers



073G0102

Accessories, sensors, Cable

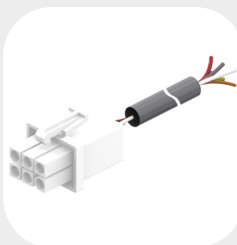
Used for product: DST G, Parts included: Cable with plug 2,50 m l/40, Packing format: Industrial pack, Quantity per packing format: 40



073G0100

Accessories, sensors, Cable

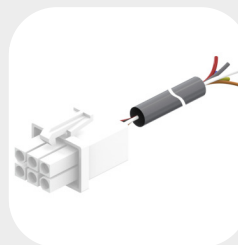
Used for product: DST G, Parts included: Cable with plug 1,00 m l/80, Packing format: Industrial pack, Quantity per packing format: 80



073G0099

Accessories, sensors, Cable

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

Product details

General data

Table 1: Sensor specifications (UL 60335-2-40)

Measuring Range	0 to 100% LFL
Alarm Threshold	10% or 15% LFL
Operating Temperature	-40°F to 175°F (-40°C to 80°C)
Intermittent Temperature	-40°F to 203°F (-40°C to 95°C)
Storage Temperature	-67°F to 203°F (-55°C to 95°C)
Operating Pressure	700 to 1200 mbar
Operating Humidity	0 to 100% RH with condensation
Enclosure Protection (EN 60529)	IP 54
Connector Protection (EN 60529)	IP 56 and IP 57
Flame Rating	UL 94 V-0

Table 2: Electrical specifications

Output mode ⁽¹⁾	Relay Specification	MODBus Specification	Dual Output Specification
Supply voltage	24 VAC +/-10% and 24 VDC (8-32VDC)	5VDC +/-10% 24 VAC +/-10% and 24 VDC (8-32VDC)	24 VAC +/-10% and 24 VDC (8-32VDC)
Power consumption (estimated) ⁽²⁾	1.6 VA max.	1.6 VA max	1.6 VA max
Digital Output	-	RS485, 120Ohm termination included in sensor	RS485, 120Ohm termination included in sensor

⁽¹⁾ Other configurations available upon request

⁽²⁾ 1.0 VA version available upon request.

Table 3: Mechanical characteristics

Materials – Enclosure	PA66 25%GF
Materials – Electrical connection	Nylon
Net weight (depending on the format)	0.04 – 0.06kg

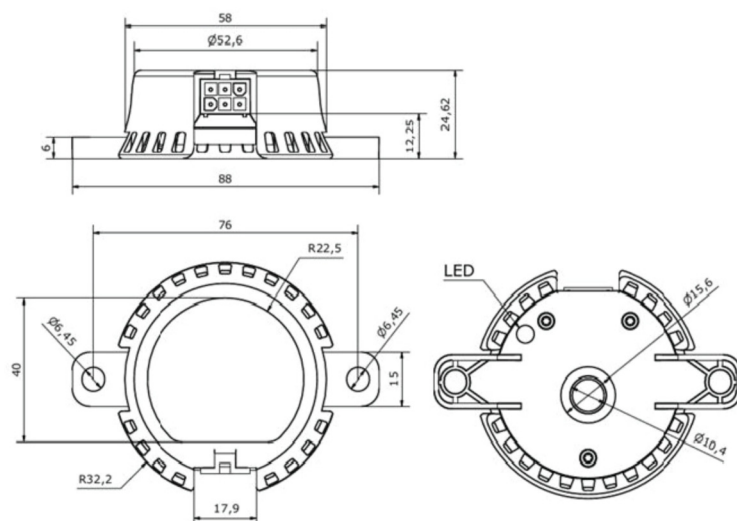
Performance and environmental conditions

Table 4: Performance specifications

Accuracy at Ambient 15°C to 25°C, 30-70% RH	±2.5% LFL
Accuracy across operating range	±5.0% LFL
Response time	< 15 s
Sensor recovery time	< 5min in clean air
Lifetime	Min 15-year lifetime – self monitoring
Mitigation recovery timer	0 - 5 minutes (others upon request)
Alarm Response	Relay open – LED red – Alarm flag
Alarm Reset	2,5% LFL hysteresis

Dimensions & weights

Figure 1: Dimensions



NOTE:

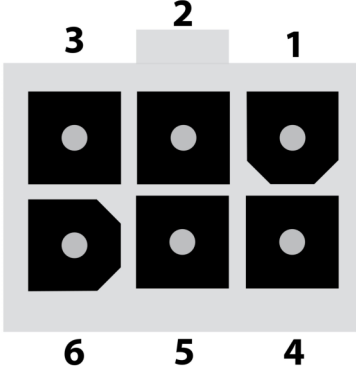
Dimensions in mm, unless stated otherwise

Disclaimer/Information:

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

Connections

Table 5: Electrical connections

Type code	Standard (6 PIN)
	
Electrical connection, Modbus	Pin 1: Supply voltage Pin 2: Earth/Ground Pin 3: Mod A (Data +) Pin 4: Mod B (Data -) Pin 5: Not connected Pin 6: Not connected
Electrical connection, Relay	Pin 1: Supply voltage Pin 2: Earth/Ground Pin 3: Not connected Pin 4: Not connected Pin 5: Input relay Pin 6: Normally open contacts output
Electrical connection, Dual Output	Pin 1: Supply voltage Pin 2: Earth/Ground Pin 3: Mod A (Data +) Pin 4: Mod B (Data -) Pin 5: Input relay Pin 6: Normally open contacts output
Enclosure IP	IP 54

NOTE:
Please check store.danfoss.com to find the correct variant for your requirements.



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
Export Control Declaration	Refrigerant Leakage Sensor	Danfoss	
EU Declaration	Danfoss EU-UK 073R0000.01	Danfoss	EU RoHS

Contact details

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