motralec Danfoss DST G54A DST G54C DST55a
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Data sheet



Gas sensor

DST G54A / DST G54C / DST G55A

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4 rue Lavoisier, 95220 Herblay-sur-Seine . Tél. 01 39 97 65 10 . service-commercial@motralec.com . www.motralec.com

Description

The new A2L gas sensor is designed for use in the refrigeration and food retail market. Our thermal conductivity technology ensures precise measurements min. 15-year lifetime, and robust design approved for systems using R454A, R454C and R455A. Our unique design is optimized to ensure performance over the lifetime even in harsh application environment as it is robust against condensation, dirt, 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

- Flexible alarm threshold and customizable software
- Patented, robust design
- Output modes: Modbus, Relay and Dual output
- Constant consistent refrigerant % LFL measurement

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Product details

General data

Sensor specifications

Measuring range	0 – 100% LFL
Alarm threshold	13 – 19%
Operating temperature	-40 – 175 °F (-40 – 80 °C)
Maximum temperature	-40 – 200 °F (-40 – 95 °C)
Storage temperature	-67 – 203 °F (-55 – 95 °C)
Operating pressure	700 – 1200 mbar
Operating humidity	0 – 100% RH with condensation
Enclosure protection (EN 60529)	IP54
Connector protection (EN 60529)	IP56 and IP57
Flame rating	UL 94 V – 0

Electrical specifications

Output mode(1)	**Relay specification**	**Modbus specification**	**Dual output specification**
Supply voltage	24 V AC ± 10% and 24 V DC (8 – 32 V DC)	5 V DC ±10% 24 V AC ± 10% and 24 V DC (8 – 32 V DC)	24 V AC ± 10% and 24 V DC (8 – 32 V DC)
Power consumption (estimated)(2)	1.6 VA max.	1.6 VA max.	1.6 VA max.
Digital Output	–	RS485, 120 Ω termination included in sensor	RS485, 120 Ω termination included in sensor

(1) Other configurations available upon request

(2) 1.0 VA version available upon request.

Mechanical characteristics

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

Performance and environmental conditions

Performance specifications

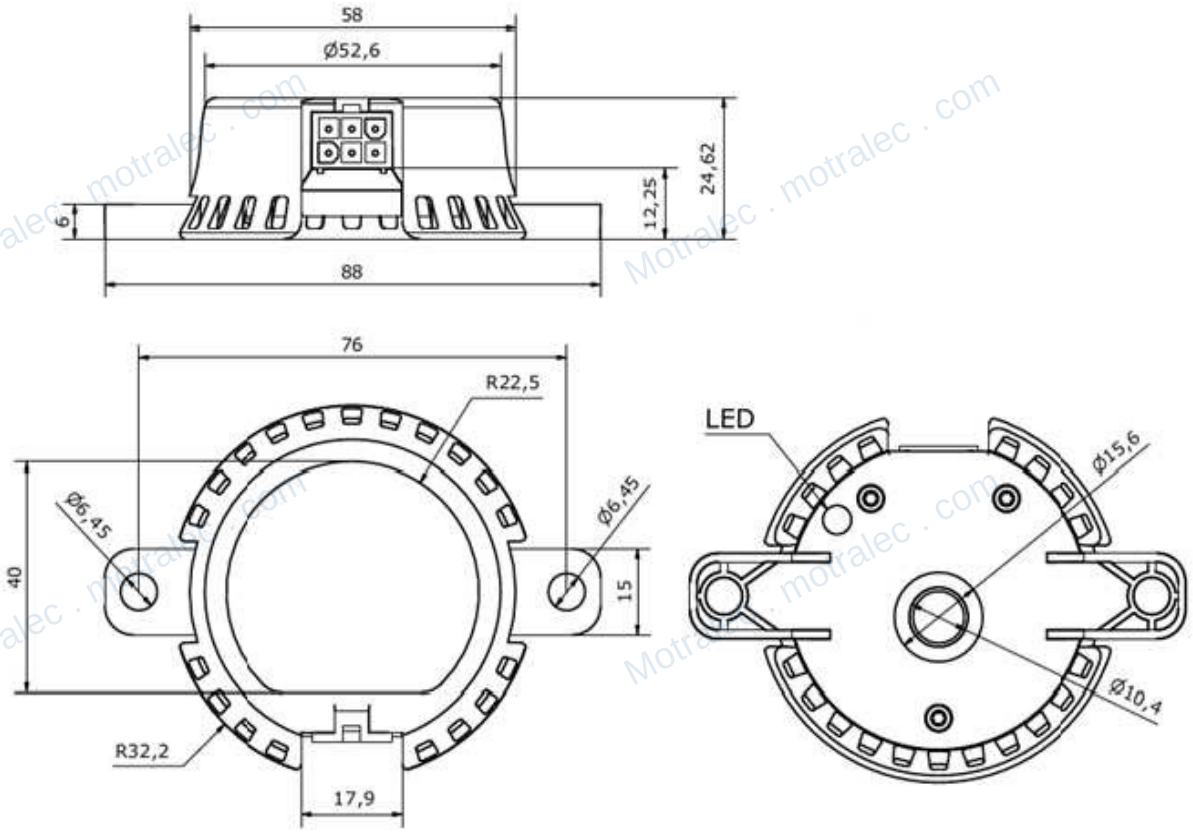
Accuracy at ambient 15 – 25 °C, 30 – 70%	±2.5% LFL
Accuracy across operating range	±5.0% LFL
Response time	< 15 s
Sensor recovery time	< 5 minutes in clean air
Lifetime	Min 15-year lifetime – self monitoring
Mitigation recovery timer	0 – 5 minutes (others upon request)
Alarm response	Relay open – LED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

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Dimensions & weights

Dimensions



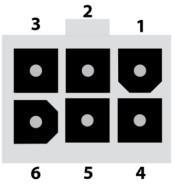
NOTE:
Dimensions are in mm, unless stated otherwise.

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

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Connections

Electrical connections

Type code	S-tandard (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	IP54

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

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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	UK RoHS
Electrical Safety Certificate	UL E534311- 20240718_20240722	UL - Underwriters Laboratories inc.	

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Contact details

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