Rosemount[™] CT4215

Leak Detection System



Rosemount is the global leader of leak detection systems for the aerosol, food, and pharmaceutical industries. The Rosemount CT4215 is an in-line system that tests 100 percent of packages going through the production line for seal integrity. Our patented Quantum Cascade Laser (QCL) technology offers high speed detection of trace gases from defective packs and rejects them instantaneously without slowing down or disrupting the production line.



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Features and benefits

- Measures up to 200 packs per minute, up to 20 times faster than the competition.
- 100 percent of products that pass through the production line are tested in real time.
- Fully automated detection and rejection of defective products without interfering with the production line.
- Small footprint, easy to install on new or retrofit onto existing production lines.
- Patented QCL technology detects leaks at a sensitivity of 0.2 mm (0.008 in.).
- Low maintenance costs for the lifetime of the system.

Note

Leak detection sensitivity can be affected by leak location, gas mix, and background gas levels.

Applications

Products	Packaging type	Gases
Meat, dairy, vegetables, bread, pasta, drinks, and more	Trays, pouches, bags, cans, and bottles	CO ₂ , CO, N ₂ O, and ethanol

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Specifications

Please consult Rosemount if your requirements are outside the specifications listed below. Improved performance, other products, and material offerings may be available depending on the application.

Overview		
Product	Rosemount CT4215	
Application	In-line leak detection	
IR source	Quantum Cascade Laser (QCL)	
Measurement technique	IR absorption spectroscopy	
Laser classification	Class I	
Performance		
Sensitivity	0.2 mm (0.008-in.) diameter ⁽¹⁾	
Packs per minute	200	
Pack dimension	Up to 9-in. (228.6 mm) width, height adjustable	
Filled gases including	CO ₂ , N ₂ O, CO, ethanol	
Environmental		
Temperature range	23 to 86 °F (-5 to 30 °C)	
Humidity range	95%	
Utilities		
Power supply	120 Vac 60 Hz/240 Vac 50 Hz	
Power consumption	600 W	
Compressed air supply	Max. 25 L/min, 8 to 10 bar (115 to 145 psi)	
Interface		
НМІ	LCD display touch screen	
PLC	Touch panel	
Traffic light	Red, green	
Control/software		
Rejection	Automated	
Reporting	Production log	
System health	Status lamp	
Line stop	Configurable	
Inputs/outputs		
Digital IN	Line status	
Digital OUT	System health	
Dimensions		
WxDxH	28 x 29 x 73-in. 703 x 732 x 1852 mm	

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Weight	285 lb. (129 kg)
Footprint on line	47 x 31-in. 1200 x 800 mm

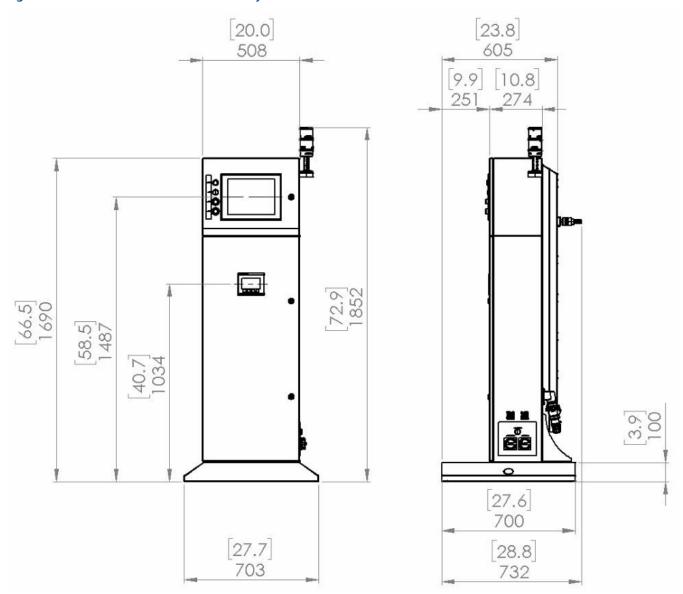
⁽¹⁾ Leak detection sensitivity can be affected by leak location, gas mix, and background gas levels.

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Recommended installation

The drawings below represent the minimum recommended installation guidelines for the Rosemount CT4215 Leak Detection System. Please consult Rosemount customer services for detailed installation recommendations for your application.

Figure 1: Rosemount CT4215 Leak Detection System Dimensions



Dimensions are in millimeters with inches in brackets.

CASCADE TECHNOLOGIES

Castle Business Park Stirling FK9 4TZ Scotland

- +44 1786 447 721
- +44 1786 475 822
- QCL.CSC@Emerson.com

EUROPE

Emerson Automation Solutions Neuhofstrasse 19a PO Box 1046 CH-6340 Baar Switzerland

- +41 (0) 41 768 6111
- (a) +41 (0) 41 768 6300
- QCL.CSC@Emerson.com

GLOBAL HEADQUARTERS

Emerson Automation Solutions 6021 Innovation Blvd Shakopee, MN 55379, USA

- +1 800 999 9307 or +1 952 906 8888
- +1 952 949 7001
- QCL.CSC@Emerson.com

MIDDLE EAST AND AFRICA

Emerson Automation Solutions Emerson FZE Jebel Ali Free Zone Dubai, United Arab Emirates, P.O. Box 17033

- +971 4 811 8100
- QCL.CSC@Emerson.com

AMERICAS

Emerson Automation Solutions 10241 West Little York, Suite 200 Houston, TX 77040 USA

- +1 866 422 3683 or +1 713 396 8880
- +1 713 466 8175
- QCL.CSC@Emerson.com

ASIA-PACIFIC

Emerson Automation Solutions 1 Pandan Crescent Singapore 128461 Republic of Singapore

- +65 6 777 8211
- +65 6 777 0947
- QCL.CSC@Emerson.com

in Linkedin.com/company/Emerson-Automation-Solutions

twitter.com/rosemount_news

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woutube.com/RosemountMeasurement

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