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Intrinsically Safe Liquid Level Sensors and Switches

SST Sensing Ltd, a DwyerOmega brand and leading manufacturer of sensing technology, introduces a range of intrinsically safe optical liquid level switches.

The switches are Hazardous Area approved and designed for use in demanding applications where direct contact with hydrocarbons, fuels, and flammable or explosive liquids is required.



Using innovative infrared technology and the principle of total internal reflection, these hazardous approved switches are suitable for a wide range of applications, including presence or absence of any liquid, petrochemicals/oil and gas, heavy-duty automotive, leak detection, hydraulic reservoirs, tank/container level-control, and downstream analyzer protection. The switches offer an almost instantaneous response time and switch point repeatability of +/- 1 mm, providing highly accurate readings, and require no calibration.

These liquid level switches are highly robust and resistant to chemical attack, with an operating temperature range between -30 and +80°C (-22...+176°F). The switches are housed in 316 stainless steel and come with a choice of sensing tip materials, making them ideal for use in challenging environments. Certified to meet stringent ATEX and IECEx safety standards, this sensor is suitable for use in hazardous area zones 0, 1 & 2 and ensures intrinsic safety by maintaining energy levels low enough to avoid ignition risks, even in faulty conditions, making it ideal for a wide range of applications and is designed for Equipment Groups IIA, IIB, and IIC with a temperature classification of T4 as defined by EN/IEC standards 60079-0, and 60079-11 (latest versions).

The SST range of intrinsically safe optical liquid level switches offers exceptional reliability and accuracy for use in challenging environments and is designed and certified to meet the highest industry standards.

For more information, please visit www.sstsensing.com

About DwyerOmega

DwyerOmega is a leading global manufacturer of precision measurement and control solutions, trusted across industries to enhance operational efficiency, ensure safety, and support sustainability goals. With a legacy of innovation and quality, our products empower customers to monitor, manage, and optimize critical processes with confidence.

The DwyerOmega Sensors Business Unit delivers a comprehensive portfolio of high-performance gas sensing technologies and liquid level switches designed to ensure safety, process efficiency, and product quality across the world's most demanding applications. Through our brands; Analytical Industries Inc. (Aii), SST Sensing Ltd, Sensore Electronic GmbH, and Dynament Ltd, we provide reliable measurement solutions trusted by OEMs, integrators, and end-users globally.

For marketing enquiries, please contact:

Fiona Gallagher, Marketing Manager | DwyerOmega Sensors Business Unit

Tel: +44 1236 459020

Email: fgallagher@dwyeromega.com