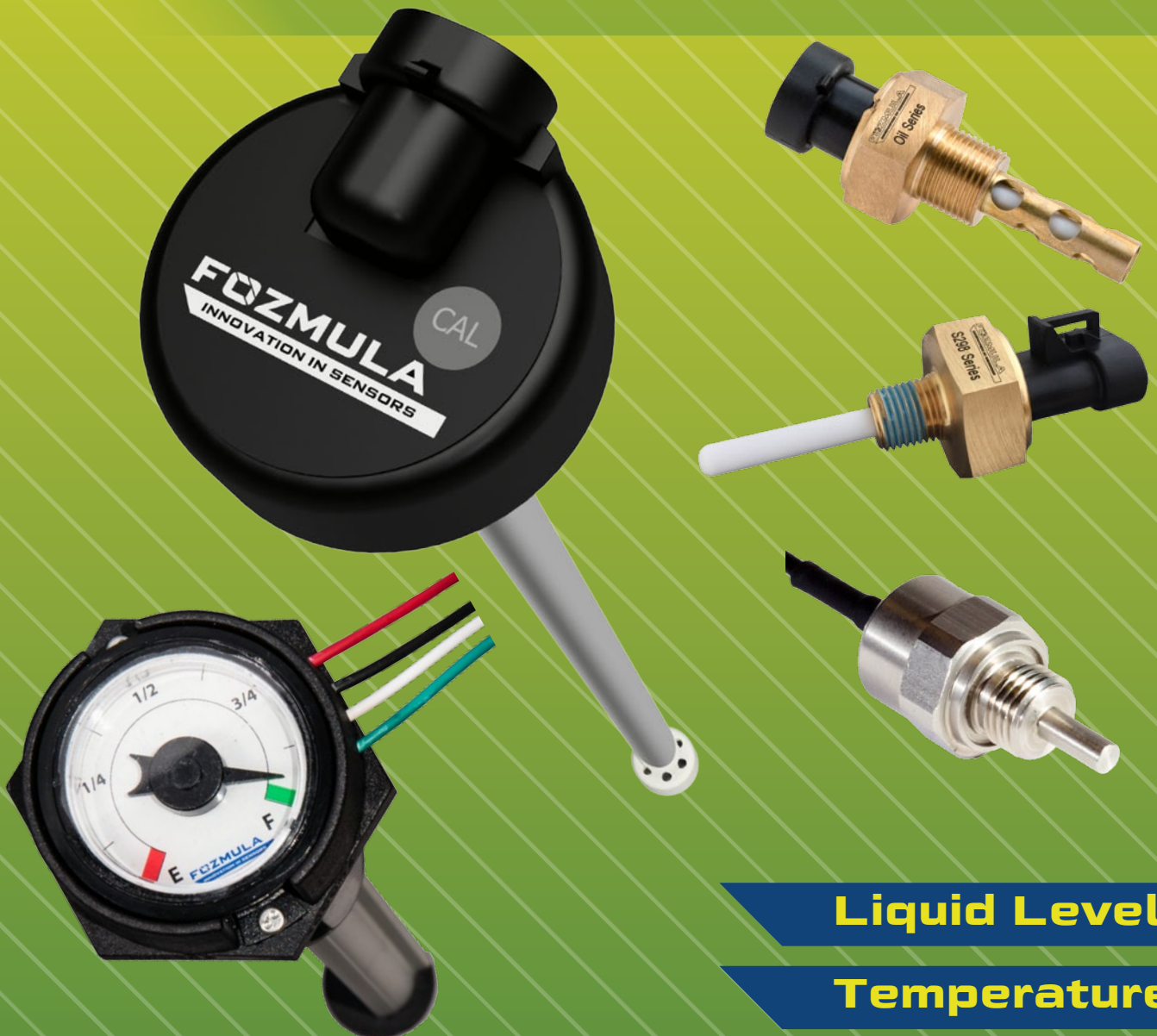


FOZMULA

INNOVATION IN SENSORS




Product Guide Sensors, Switches & Gauges










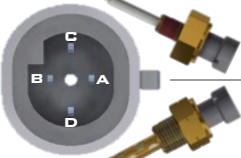
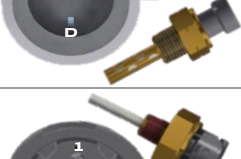
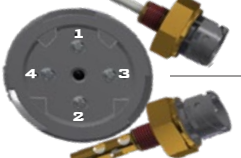
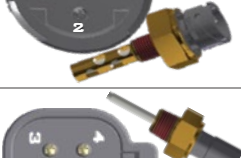
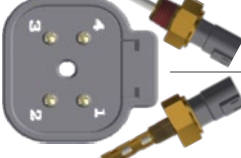
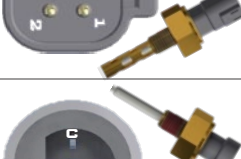
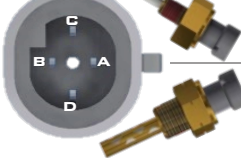
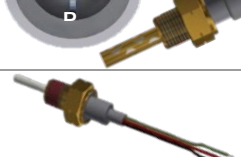
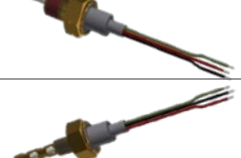


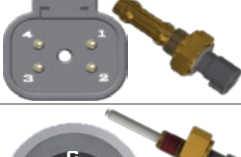
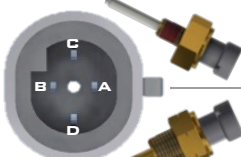
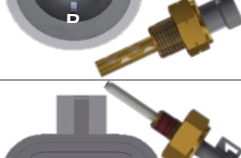

Liquid Level

Temperature

Pressure

Product	Application
<p>T/LL130 Capacitance Type Liquid Level Sensor</p> 	<p>Vertically mounted sensor providing continuous monitoring of liquid level. Typically used on OEM fuel or coolant tanks. Applications include generators, construction equipment, buses and racecars. Variants include resistive match or voltage outputs with mounting options: ½" NPT, ½" BSPT, 1" BSPT plus an optional 5-hole flange.</p>
<p>T/LL150 Capacitance Type Liquid Level Sensor</p> 	<p>A version of the T/LL130 vertically mounted liquid level sensor that can be cut-to-length and calibrated by the customer's technicians. Ideal for stocking by distributors and installers. Applications include bespoke generator and industrial equipment installations and refits.</p>
<p>T/LL140 Capacitance Type Fuel Level Sensor</p> 	<p>Vertical mounted fuel level sensor with a 5-hole SAE fitting. Available as an OEM fit factory calibrated sensor or as a kit for cutting to length and calibrating by the customer's technicians the T/LL140 is used in fuel tank applications including generator sets and racecars.</p>
<p>T/LL200 Hydrostatic Type Liquid Level Sensor</p> 	<p>Hydrostatic level measurement in diesel fuel tanks up to 4 m deep or water tanks with depths of up to 3.5 m. Mainly for use in static bulk storage tanks where no swing arm type sender is practical due to baffles and rigid sensors present installation and shipping issues due to their length.</p>
<p>T/LL350 Capacitance Type Liquid Level Sensor</p> 	<p>A capacitance type level sensor which continuously checks the dielectric constant of the liquid. On detecting a change (e.g. biodiesel instead of conventional diesel) it auto-compensates to ensure accurate measurement. Outputs include voltage, resistance or current. Popular with defence equipment manufacturers.</p>
<p>FR370 Fuel Level Sensor with Feed and Return</p> 	<p>A capacitance type fuel level sensor equipped with fuel feed and return pipes, removing the need for additional fuel extraction and filling connections and simplifying the fuel tank assembly and installation. Available with 5 or 6-hole SAE mountings, options for inlet/outlet/breather designs and electrical connections.</p>
<p>T/LL400 Extended Temp. Range Oil Level Sensor</p> 	<p>An advanced capacitance sensor that continuously monitors oil level providing a configurable voltage output in the range 0-10 VDC. Compact and robust this sensor is designed to provide accurate and repeatable level data for oil in relatively shallow, extended temperature range applications such as engine oil sumps or tanks.</p>

Product	Application
<p>G/LL63 Tank Contents Gauge</p> 	<p>A robust and effective vertically mounted tank contents gauge. Applications include generator base tanks and the highly competitive volume production end of the construction equipment market.</p>
<p>G/LL64 Tank Contents Gauge with Level Switch</p> 	<p>The G/LL64 is a variant of the same mechanical contents gauge but incorporates an electrical low level switch that can trigger an alarm to protect the customer's engine from damage due to fuel starvation.</p>
<p>G/LL65 Contents Gauge with Continuous Output</p> 	<p>The G/LL65 version takes things a step further, combining a direct mechanical reading at the fuel tank with an electrical output of fuel level for a dash mounted gauge, remote monitoring or a controller.</p>
<p>T/T1000 Temperature Sensor with Voltage Output</p> 	<p>A temperature sensor providing a highly accurate linear voltage output in the range 0 to 5 VDC. Capable of operating through an extreme temperature range these sensors are ideally suited to special purpose vehicle applications.</p>
<p>S28x & S29x Coolant Level Switch</p> 	<p>Capacitance type side entry switches, for use in static or mobile water based storage tanks and reservoirs. Coolant level alarm on generators, engines, commercial vehicle, construction vehicle radiators, railway carriage heat exchange systems. For options see table overleaf.</p>
<p>S28x & S29x Oil Level Switch</p> 	<p>Capacitance type side entry switches, for use in most types of oil i.e. hydraulic power packs, gearbox, engine sump. Applications with engines; generators, trains, tractors, construction vehicles. For options see table overleaf.</p>
<p>T/LL122 Adjustable Float Switch</p> 	<p>A user adjustable vertical float switch that can be tailored to suit a particular application. Mounted using a 1" BSPP header or a choice of two 4-hole flanges this level switch can be installed with either open or close on rise switching senses. Also available with an integrated temperature switch.</p>

SINK/SOURCE Output Switches S27X and S28X				POWER SUPPLY	OUTPUT																
					SINK	SOURCE (less 2.7V)	SINK and SOURCE	1/4" NPTF	3/8" NPTF	1/2" NPTF	3/8" BSPP	1/2" BSPP	1/2" BSPT	M14 x 1.5	M18 x 1.5	M20 x 1.5	M22 x 1.5	M22 x 2.5			
S275		Coolant	Delphi M/P 150 - 4P	9-36 VDC	✗	PIN D	✗	✓	✓	✓	✓	✓	✓	✓							
S276		Oil	Delphi M/P 150 - 4P	9-36 VDC	✗	PIN D	✗	✓	✓	✓	✓	✓	✓	✓				✓	✓		
S281		Coolant	DIN 72585	9-36 VDC	PIN 3	PIN 4	✓	✓	✓	✓	✓	✓	✓								
S282		Oil	DIN 72585	9-36 VDC	PIN 3	PIN 4	✓	✓	✓	✓	✓	✓	✓				✓	✓			
S283		Coolant	Deutsch DT04-4P	9-36 VDC	PIN 4	PIN 3	✓	✓	✓	✓	✓	✓	✓								
S284		Oil	Deutsch DT04-4P	9-36 VDC	PIN 4	PIN 3	✓	✓	✓	✓	✓	✓	✓				✓	✓			
S285		Coolant	Delphi M/P 150 - 4P	9-36 VDC	PIN D	PIN A	✓	✓	✓	✓	✓	✓	✓								
S286		Oil	Delphi M/P 150 - 4P	9-36 VDC	PIN D	PIN A	✓	✓	✓	✓	✓	✓	✓				✓	✓			
S287		Coolant	Flying Lead (optional connector)	9-36 VDC	✓	✓	✓	✓	✓	✓	✓	✓	✓								
S288		Oil	Flying Lead (optional connector)	9-36 VDC	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			
Stainless Steel Body																					
S3XX		Coolant	ON ENQUIRY	9-36 VDC	✓	✓	✓	✓	✓	✓	✓	✓	✓								
VOLTAGE LEVEL Output Switches S26X and S29X				POWER SUPPLY	OUTPUT																
S265		Coolant	Deutsch DT04-4P	5±0.25 VDC 7mA	Single pin (3) 2-state Voltage, miswiring protection and high case isolation, loss of power requirement (MIN 0.5V/MAX 4.0V)													✓			
S291		Coolant	Delphi M/P 150 - 4P	5±0.25 VDC 7mA	Dual pin (A&D) Complimentary output, 2-state Voltages, high case isolation (MIN 0.5V/MAX 4.0V)			✓	✓	✓	✓	✓	✓	✓							
S292		Oil	Delphi M/P 150 - 4P	5±0.25 VDC 7mA	Dual pin (A&D) Complimentary output, 2-state Voltages, high case isolation (MIN 0.5V/MAX 4.0V)			✓	✓	✓	✓	✓	✓	✓				✓	✓		
S298		Coolant	Delphi M/P 150 - 3P	5±0.25 VDC 7mA	Single pin (B) 2-state Voltage, miswiring protection and high case isolation (MIN 0.5V/MAX 4.0V)			✓	✓	✓	✓	✓	✓	✓							

Alternative threads available on enquiry

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