



CUSTOM ENGINEERED FLOAT TYPE LEVEL SWITCHES

- BUILT FOR ACCURACY & DURABILITY
- DEDICATED OPTIONS FOR SPECIALIST APPLICATIONS
- Output AND FDA APPROVED VERSIONS
- 💮 CUSTOM DESIGN WITH 3-D MODELLING



TRUSTED INTERNATIONAL SUPPLIER WITH 60 YEARS OF SPECIALIST RESEARCH AND DEVELOPMENT



The successful measurement of liquid levels in any fluid system requires a detailed understanding of each application.

There can be **many design and operational** factors to consider. Often, the choice of sensor is dictated by the media to be measured, such as its specific gravity, viscosity or corrosiveness. Sometimes, design constraints relate to the best way to integrate the sensor, including its position, mounting and size within a restricted space.

To meet this demand for design flexibility, Gems Sensors & Controls have developed an extensive range of float level switches. These span everything from simple, high-volume reed switches to specialist technologies designed for more challenging environments.

Quality is built in to every stage of

production, with international certification offering peace of mind for brands including Siemens, BMW, Draeger and Maintou.





Strong collaboration with in-house engineering teams to identify the most effective solution

- Extensive experience of liquid level applications and the technology options available
- Hundreds of single- and multi-point models to meet specific design criteria
- Advice on subassembly design and integration of multiple technologies



Wide choice of construction materials. mounting types and electrical termination

- Broad selection to meet particular liquid type, temperature, pressure and viscosity
- Specialist options for compact spaces, food use, ultra pure liquids or hazardous chemicals
- All sensors IP65-rated (IP69 also available)



Rapid development of modified products, integral assemblies or bespoke systems

- Standard products can be adapted, with alternative connectors, ports and housings
- 3D modelling of customised components
- Lean manufacturing techniques ensures short lead times for prototypes and special items



ISO certified facilities in Europe, North America and Asia produce 4 million sensors a year

- Quality control at every stage
- Approvals for UL, CSA, CE, NSF, FDA and RoHS
- Inventory support to help maintain stock levels and reduce time-to-market for new products



Gems produce 4 million sensors every year for customers worldwide

Float level switches from Gems are used in a wide variety of products, including the protection of motors in off-highway vehicles from overheating, maintaining the right conditions for pharmaceutical production and ensuring the safe operation of many domestic and commercial products.



Other typical applications include:

Small boilers, hot water heaters, drinking water, HVAC, leak detectors for drip pans, printers and semiconductor manufacturing.

Standard Components Available

Single Point: Side Mounted (Horizontal)					
PART	MATERIAL	MOUNTING	COMPATIBLE MEDIA		
LS7-165570	NYLON	INTERNAL	OIL, FUEL, HYDROCARBONS		
LS7-164520	POLYPROPYLENE	INTERNAL	CHEMICALS, WATER		
LS7-131100	POLYPROPYLENE	EXTERNAL	CHEMICALS, WATER		
LS7-140620	NYLON	EXTERNAL	OIL, FUEL, HYDROCARBONS		
LS7-177100	VERSAPLAST	EXTERNAL	OIL, ANTIFREEZE, HIGH TEMP, CORROSIVE FLUIDS, CHEMICALS		
LS7-160450	POLYPROPYLENE	EXTERNAL	CHEMICALS, WATER		
LS7-160460	NYLON	EXTERNAL	OIL, FUEL, HYDROCARBONS		
LS7-165800	POLYPROPYLENE	EXTERNAL	CHEMICALS, WATER		
LS7-191080	NORYL	INTERNAL	POTABLE WATER, LIMITED CHEMICALS		
'DROP DOWN' TYPE 12					
LS7-191080	NORYL	INTERNAL	POTABLE WATER, LIMITED CHEMICALS		

Single Point: Top or Bottom Mounted (Vertical)						
PART	MATERIAL	MOUNTING TYPE	COMPATIBLE MEDIA			
LS3-42295	POLYSULFONE	1/8" NPT	WATER-BASED			
LS3-142505	POLYPROPYLENE	1/8" NPT	CHEMICALS			
LS3-171517	POLYPROPYLENE	3/8"-16	CHEMICALS			
LS3-116826	POLYPROPYLENE (SOLID)	1/8" NPT	CHEMICALS			
LS3-171514	POLYPROPYLENE (SOLID)	3/8"-16	CHEMICALS			
LS3-162745	NYLON/BUNA	1/8" NPT	OILS, FUELS			
LS3-173250	PVDF	1/8" NPT	ULTRA-PURE			

Single Point: Electro-Optic						
PART	INPUT POWER	PROBE CONDITION AT CURRENT SINK	MOUNTING TYPE			
ELS-1100-142700	10-28 VDC	WET	1/4" NPT			
ELS-1100-143585	10-28 VDC	WET	1/4" NPT & 3/8" CONDUIT			
ELS-1100-169555	10-28 VDC	WET	M12X1-8G			
ELS-1100-143570	10-28 VDC	DRY	1/4" NPT			
ELS-1100-143590	10-28 VDC	DRY	1/4" NPT & 3/8" CONDUIT			
ELS-1100-148973	10-28 VDC	DRY	'FISH' PULL RING			

Contact us for details of all other options

GOT A PROJECT IN MIND? WE CAN HELP

Every day, our in-house design team advise OEM customers on the components they need.

We can source a suitable part from an existing design specification or set of technical drawings. Or we can investigate a number of different solutions based on original requirements.

If you want advice on how to improve your product or reduce its cost, discuss your project with us.

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REQUEST A TEST SAMPLE FOR YOUR PRODUCT DESIGN

ARRANGE A MEETING WITH A TECHNICAL EXPERT

SEND US YOUR PROJECT SCOPE

TO TALK TO OUR EXPERT TEAM, CALL **+44 (0)1483 869 070** OR EMAIL **SALES@HAWCO.CO.UK**

