

F31-1**, -2**, -3**, -4** Series

Flange mount vertical switch



- Flange mount for installation from outside of tank



II 1 / 2 G D

Ex d IIC T4 (T_{amb} = -50°C to +100°C)

Ex tD A20/A21 T110°C IP6X

Max Process Temp 100°C

for use in Zones 1 and 2

- One, two, three, or four switch levels
- Switch configurations of SPST or SPDT reed switch contacts for high reliability
- Enclosure Stainless Steel IP68
- All are custom built to suit particular applications, based on information provided

The F31 series are vertical float switches that are top mounted, via a flanged connection, from the outside of the tank. Access to the inside of the tank is not required for fitting the float switch.

These can be made with either 1, 2, 3 or 4 point level switches of either SPST or SPDT action. The electrical loom is fully insulated and encapsulated within the stem of the device.

Designed to withstand the most arduous applications, they are suitable for use in Water, Diesel, Oil and hydraulic tanks and reservoirs, as well as Chemical and Petro-chemical storage and process control.

The float or floats follow the level of the liquid and operate the SPST or SPDT switch elements within the stem.

Technical Specification

Float Material	Stainless Steel, D300 (PVC), Buna, Polypropylene, and others
Stem Material	Stainless Steel 316L
Temp. Range °C	-20 / +100 dependant on float material
°F	-4 / +212
Min. Fluid SG	dependant on float type
Conduit entry	M20x1.5
Standard Flange	1 ½" ASA 150 RF other flanges available
Terminations	Klippon screw type Mk12
Maximum pressure	dependant on length
Maximum Length (Depth)	3 metres

Electrical Specification

		SPST	SPST	SPDT	SPDT
Switching Power Max	VA	25	100	25	60
Switching Voltage AC Max	V	240	250	250	250
Switching Voltage DC Max	V	120	250	250	250
Switching Current Max	A	0.6	3	1	3

All ratings are for resistive load only.

Applicable Standards

Low voltage directive
 PED directive, where applicable
 Lloyds Type Approved
 ATEX directive **EC Type Examination Cert No BAS01ATEX2265**

All are custom built to suit particular applications, based on information provided. Please contact Cynergy3 with your requirements.

Information that is normally required:

The application and fluid in which the float switch will be used

The Specific Gravity, SG, of the fluid

The maximum temperature of the fluid

Will the float switch be fitted in a tank that is pressurised

The required flange size (If unknown we can specify)

The distance from the mounting face of the float

switch to the switching point or points.

The switching action required at the switch points - 'make on rise' or 'make on fall'

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ISO9001 CERTIFIED

cynergy3-f31-v2



Made in the UK

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