

# EXTERNAL CAGE LEVEL CONTROLLER

SIGMA's External cage liquid level switches are very widely used for the petroleum and power industries. Anti vibration design ensures positive switch activation. Being highly versatile, cage mounted type extends to a wide range of other possible applications.

### Sigma Advant-edge

- ✓ Rugged in construction and easy to install
- ✓ Facilitates maintenance, inspection & cleaning
- ✓ High temperature and pressure versions
- Special coating and special designs for corrosive applications.

#### Specifications

Center - center Distance (cc): 150 mm - 1500 mm

**Orientation Type** : Vertical

Level Control : Single Level (One float) /

Single Float with two or three

level, set point between two

levels 40 mm min / Two Levels

Dual Float.

Float & Size : Spherical / Cylindrical,

Application based/specified.

Float Material : SS 316 / PP / PVC

Chamber : CS/ AISI 304 / 316 / specified.

Switch Housing : Weather proof IP 67 /

Explosion proof IIA IIB, IIC

Switch : Micro, sealed assembly

available.

**Current Rating** : 10 / 15 A / 250 V A.C Max

/ specified.

Conduit Connection : ½" or 3/4" NPT, 3/4" to 1" ET.

Differential : Fixed  $12 \pm 3 \text{ mm} / \text{Adjustable}$ 

differential / set point.

**Process Connection** : Flanged / Threaded /

Socket Weld

**Process Orientation** : Side-Side or Side and bottom.

Side-Side connection

Pressure : 15 - 50 bar / specified.





Available

IBR Approved External Cage Level Switch



### Additional Features (optional):

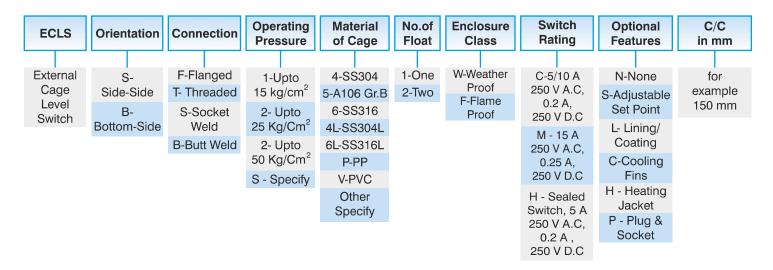
For high temperature between 250°C - 550°C SS Cooling Fins are provided to reduce the temperature of the housing. Special construction of the chamber & flange ratings are designed for high-pressure applications. Vertical float type can be substituted with displacer in place of float for increasing pressure / temperature capacity. For low specific gravity liquids ranging from 0.5 to 0.8 additional fixture is provided for efficient operation of the switch.

#### Sealed Chamber Level Switch

In Sealed chamber Level Switch, the Float Chamber is completely sealed with float inside the chamber. By virtue of sealed cable entry, the switch can be used for refrigerants, with low specific gravity. Special designs for 98% H<sub>2</sub>SO<sub>4</sub> applicable is also available.



# Model Number Coding for External Cage Level Controller



### Model Decoding example: ECLS - S - F - 1 - 4 - 1 - W - M - C-150 mm

# External Cage Level Switch, with

- Side-Side orientation
- Weather Proof Enclosure
- Flanged Connection (specify size & rating) Switch rating 15 A, 250 V AC, 0.25 A, 250 V D.C
- Operating Pressure up to 15 kg/cm<sup>2</sup>
- Cooling Fins

- SS 304 Cage-

- 150 mm c/c

- with one float

#### Note

SIGMA reserves the right to modify specification / design from time to time, which is deemed suitable for the product without prior intimation.

# Note

- Model Coding is categorized as per the specification of the product, for ease of selection and ordering.
- In case of choosing multiple specification under a specific category, mention the 2nd / 3rd code with a bracket, after the 1st code.
- For ordering IBR approved product, mention "IBR" immediately after the Product code.
- 2 SPDT Switch with 10A @ 250V AC, 0.2 A @ 250V DC is supplied as standard.
- PP (50°C) / PVC / Teflon max pressure rating is 8 Kg/cm<sup>2</sup> PP/PVC/Teflon switches are available with single float option only.
- The product conforms to 97/23/EC: Pressure Equipment Directive, Article 3.3 & 2006/95/EC:Low Voltage Directive (LVD)
- In case of doubt, contact SIGMA for assistance in arriving at the model code / for specification.

