

### APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

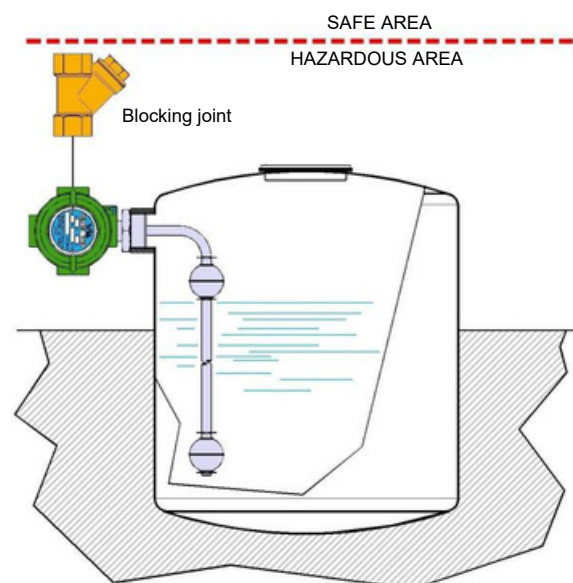
These instruments, explosion-proof certified **CESI 03 ATEX 272 Ext.2 II 1/2G Exdb IIC T5/T6 Ga/Gb**, are used to control the level of liquids or fuel in tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.



Exd



GOST-R Ex



### GENERAL CHARACTERISTICS

- **Stainless steel – AISI 316**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 50 bar.
- Standard working temperature up to 100°C.
- Executions up to 160°C on request.
- Operating ambient temperature  
-40/+40°C = T6, -40/+60°C = T5
- Minimum degree of protection IP67.
- Built-in temperature sensors, on request.  
PT – PTC – NTC – Thermostat (thermoprotector).

### FLOATS

Tab.1

|                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| <b>S29</b><br>□ 30x32                                                              | <b>S32</b><br>□ 30x32                                                              | <b>S41</b><br>□ 41x35                                                                | <b>S52</b><br>□ 52                                                                   |

| Material           | Stainless steel – AISI 316 |    |      |    |      |   |     |   |
|--------------------|----------------------------|----|------|----|------|---|-----|---|
| Specific gravity   | 0,75                       |    | 0,55 |    | 0,65 |   | 0,7 |   |
| Contact type       | 3                          | 6D | 3    | 6D | 4    | 6 | 4   | 6 |
| Max N. of contacts | 6                          | 4  | 6    | 4  | 6    |   | 6   |   |
| Max. bar           | 30                         |    | 10   |    | 10   |   | 50  |   |
| Max. °C - Class    | L = 100°C R                |    |      |    |      |   |     |   |
| On request         | = 160°C                    |    |      |    |      |   |     |   |

### ELECTRICAL CONTACTS

Tab.2

| TYPE |    | POWER |    | VOLTAGE |     | CURRENT |     |
|------|----|-------|----|---------|-----|---------|-----|
|      |    | VA    | W  | AC      | DC  | AC      | DC  |
| SPST | 3  | 70    | 50 | 300     | 350 | 0,5     | 0,7 |
| SPST | 4  | 80    | 80 | 250     | 250 | 1,3     | 1,3 |
| SPDT | 6  | 60    | 60 | 230     | 230 | 1       | 1   |
| SPDT | 6D | 20    | 20 | 150     | 150 | 0,5     | 0,5 |

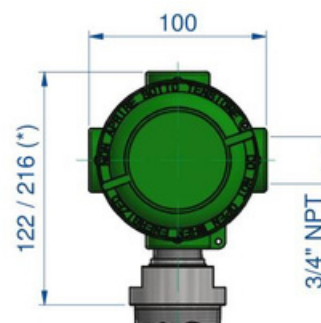
### ELECTRICAL OUTPUT

Tab.3

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| <b>E1</b> | IP66/67 Housing – Aluminum - Epoxy painted<br>Max. 18 terminals |
| <b>E3</b> | IP66/67 Housing – AISI 316 St. steel<br>Max. 18 terminals       |

Heatsink - see dimension (\*)

Temperature class **R**



Tab.4

### PROCESS CONNECTIONS

| Float type | Installation from outside – available thread and flanges |        |        |       |        |        |        |
|------------|----------------------------------------------------------|--------|--------|-------|--------|--------|--------|
|            | 25                                                       | 32     | 40     | 50    | FSHX   | DN50   | DN65   |
| S29        | 1"                                                       | 1 1/4" | 1 1/2" | 2"    | Flange | Flange | Flange |
| S32        | G                                                        | G-C-N  | -      | -     | •      | -      | -      |
| S41        | G                                                        | -      | -      | -     | •      | -      | -      |
| S52        | -                                                        | -      | G-C-N  | G-C-N | •      | •      | •      |
|            | -                                                        | -      | -      | G-C-N | -      | -      | •      |

#### Male thread

| G                     | C                  | N              |
|-----------------------|--------------------|----------------|
| Parallel<br>UNI 228/1 | Conical<br>UNI 7/1 | Conical<br>NPT |

#### Available materials

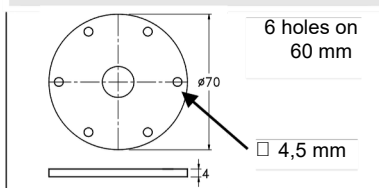
| S        | T                      |
|----------|------------------------|
| AISI-316 | AISI-304<br>On request |

#### DN = Available materials

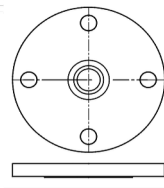
| C     | S        |
|-------|----------|
| Steel | AISI-316 |

### FLANGES

Dimensions in mm.



FSHX



DN = UNI – DIN – ANSI flanges

### WIRING

Tab.5

| I | Independent | Separately wired contacts | 1 | NO   | Contacts status<br>in no level<br>conditions |
|---|-------------|---------------------------|---|------|----------------------------------------------|
| C | Common      | Common wired contacts     | 2 | NC   |                                              |
| S | Custom      | Contacts wired on request | 3 | SPDT |                                              |

### SWITCH POINTS

- minimum value in mm.

Tab.6

The switch points L1 + L6 are measured from the axis of the fitting or flange connection.  
General tolerances on switch points  $\pm 3$  mm.

|                    | Minimum distance in mm. |     |     |     |   |   |   |   |
|--------------------|-------------------------|-----|-----|-----|---|---|---|---|
|                    | S29                     | S32 | S41 | S52 |   |   |   |   |
| A min.             | 60                      | 60  | 80  | 80  |   |   |   |   |
| A1 min.            | 60                      | 60  | 80  | 80  |   |   |   |   |
| B                  | 25                      | 25  | 35  | 40  |   |   |   |   |
| C                  | 45                      | 45  | 65  | 75  |   |   |   |   |
| D max ▶            | 24                      | 24  | 36  | 36  |   |   |   |   |
| Contact type       | 3                       | 6D  | 3   | 6D  | 4 | 6 | 4 | 6 |
| Max. N of contacts | 6                       | 4   | 6   | 4   | 6 |   | 6 |   |

