



## VFS-FP (ATEX/IECEX Vertical Float Switch)

The Deeter VFS-FP is a vertical magnetic float switch for control and indication of a liquid level while in a potentially explosive atmosphere. The VFS-FP is also available with Marine Type Approval.



 1/2G 2D  
Ex db IIC (\*) Ga/Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

 II 2GD  
Ex db IIC (\*) Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

\* Temperature class options to suit environment and process temperatures

T5 / T100°C for process temperatures  $\leq 85^{\circ}\text{C}$

T4 / T135°C for process temperatures  $\leq 125^{\circ}\text{C}$

T3 / T200°C for process temperatures  $\leq 190^{\circ}\text{C}$

ATEX Certificate: ExVeritas 17ATEX0301X

IECEX Certificate: IECEX EXV 17.0030X


Refer to certificate for clarification of directive code and equipment protection level.


### Features include

- ATEX and IECEX approved.
- Marine Type Approval available.
- Stainless Steel 316L housing and wetted components.
- Suitable for gas and dust environments.
- IP68 Ingress protection.
- Voltage free reed switch contacts
- Narrow sensor stem and external mounting.
- Suitable for high liquid temperatures.
- Custom options available

## Flameproof LVCS FP Continuous Level Sensor

The Deeter LVCS FP is a magnetic float on a reed switch or Hall Effect sensor stem for control and indication of a liquid level while in a potentially explosive atmosphere.

 II 1/2G 2D  
Ex db IIC (\*) Ga/Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

 II 2GD  
Ex db IIC (\*) Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

\* Temperature class options to suit environment and process temperatures  
T5 / T100°C for process temperatures  $\leq 85^{\circ}\text{C}$   
T4 / T135°C for process temperatures  $\leq 125^{\circ}\text{C}$   
T3 / T200°C for process temperatures  $\leq 180^{\circ}\text{C}$

ATEX Certificate: ExVeritas 17ATEX0301X  
IECEX Certificate: IECEX EXV 17.0030X  
Refer to certificate for clarification of directive code and equipment protection level.





### Features include:

- ATEX and IECEX approved.
- Standard lengths or custom length sensor stems up to 6 Metres.
- Stainless steel 316 housing and wetted components.
- Suitable for gas and dust environments.
- IP68 Ingress protection.
- Reed switch or Hall Effect sensing technology.
- Voltage and current loop analogue output.
- Factory programmable set point triggers available.
- M20 and ½"NPT cable connections.
- Custom mounting options available.
- Narrow sensor stem and mounting for tanks without internal access.
- Suitable for high liquid temperatures.
- Can be specified for process temperatures down to  $-55^{\circ}\text{C}$ .

## F/S FP Flameproof Float Switch

The Deeter F/S FP is magnetic float on a reed switch sensor stem for control and indication of a liquid level while in a potentially explosive atmosphere.

 II 1/2G 2D  
Ex db IIC (\*) Ga/Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

 II 2GD  
Ex db IIC (\*) Gb  $-55^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
Ex tb IIIC (\*) Db  $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$   
IP68

\* Temperature class options to suit environment and process temperatures  
T5 / T100°C for process temperatures  $\leq 85^{\circ}\text{C}$   
T4 / T135°C for process temperatures  $\leq 125^{\circ}\text{C}$   
T3 / T200°C for process temperatures  $\leq 190^{\circ}\text{C}$

ATEX Certificate: ExVeritas 17ATEX0301X  
IECEX Certificate: IECEX EXV 17.0030X  
Refer to certificate for clarification of directive code and equipment protection level.



### Features include:

- ATEX and IECEX approved.
- Custom length sensor stems up to 6 Metres.
- Stainless steel 316 housing and wetted components.
- Up to 7 switch points on one stem.
- Custom made for mixed normally open/normally closed switches.
- Suitable for gas and dust environments.
- IP68 Ingress protection.
- Voltage free reed switch contacts.
- M20 or 1/2"NPT cable entry connections.
- Custom mounting options available.
- Narrow sensor stem and mounting for tanks without internal access.
- Suitable for high liquid temperatures.
- Can be specified for process temperatures down to  $-55^{\circ}\text{C}$

# HFS Ex Hazardous Area Horizontal Float Switch


The HFS Ex Hazardous Area Horizontal Float Switch is a float operated magnet arm on a reed switch sensor stem for control and indication of a liquid level while in a potentially explosive atmosphere.



Features include:

- ATEX and IECEx Ex d approved.
- Voltage free SPST or SPDT reed switch contacts.
- Stainless steel 316 housing and wetted components.
- Custom mounting options available.
- Suitable for high liquid temperatures.
- Suitable for gas and dust environments.
- IP68 Ingress protection.
- Suitable for low specific gravity liquids.
- M20 or ½" NPT cable entry.

ATEX Coding:

 II 1/2G 2D  
Ex db IIC (\*) Ga/Gb  
Ex tb IIIC (\*) Db  
-20°C ≤ Tamb ≤ +85°C

\* Temperature class options to suit the environment and process temperatures.

T5 / T100°C for process temperatures ≤ 85°C

T4 / T135°C for process temperatures ≤ 125°C

T3 / T200°C for process temperatures ≤ 190°C

## LVCSi FP Flameproof Continuous Level Sensor

The LVCSi FP is an analogue vertical liquid level sensor with an integrated display meter and output driver specifically designed for continuous, in-situ monitoring of your tank while in a potentially explosive atmosphere. With optional temperature sensing and MODBUS communications protocols, the LVCSi-FP is an all-in-one ATEX/ IECEx solution for liquid level monitoring.



### II 1/2G 2D

Ex db IIC T5/T4/T3 Ga/Gb -40°C ≤ Ta ≤ +85°C  
Ex tb IIIC T100°C / T135°C / T200°C Db -40°C ≤ Ta ≤ +85°C  
IP68

### II 2GD

Ex db IIC T5/T4/T3 Gb -40°C ≤ Ta ≤ +85°C  
Ex tb IIIC T100°C / T135°C / T200°C Db -40°C ≤ Ta ≤ +85°C  
IP68

Environment and process temperatures

T5 / T100°C for process temperatures ≤ +85°C and ≥ -55°C

T4 / T135°C for process temperatures ≤ +120°C and ≥ -55°C

T3 / T200°C for process temperatures ≤ +180°C and ≥ -55°C

ATEX Certificate: ExVeritas 17ATEX0301X

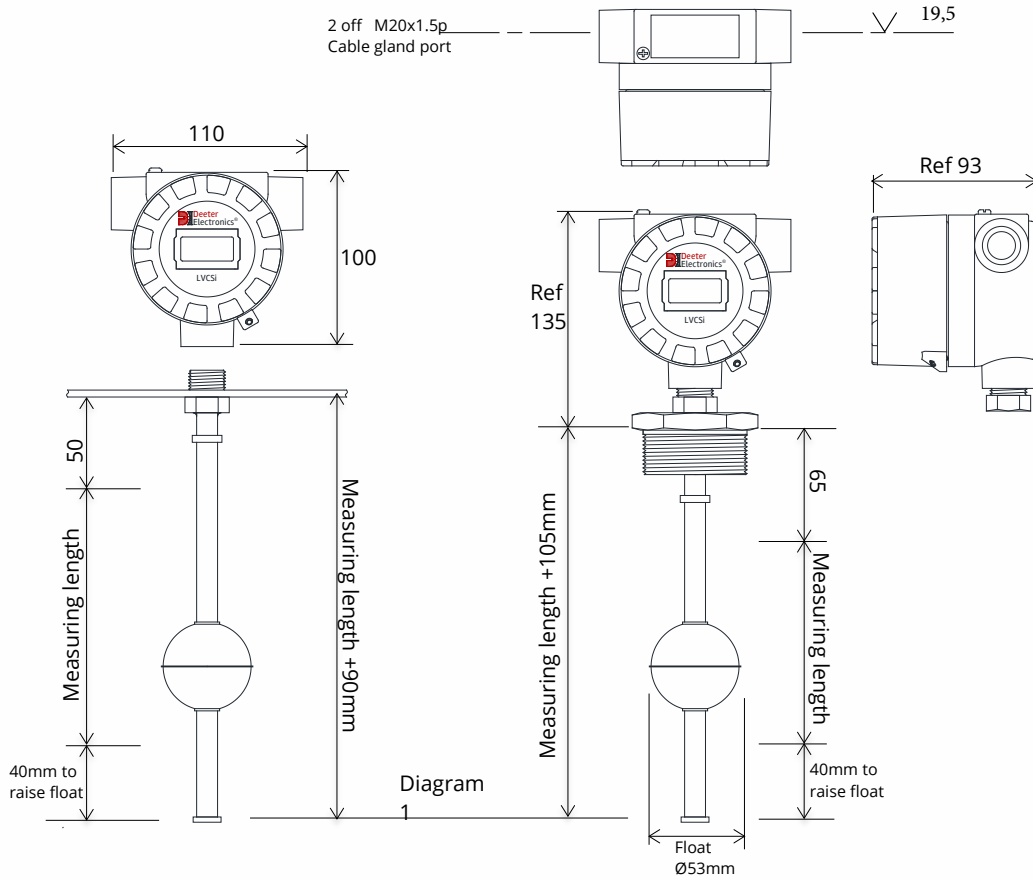
IECEx Certificate: IECEx EXV17.0030X

Refer to certificate for clarification of directive code and equipment protection level.

The LVCSi-FP features include:

- ATEX and IECEx approved
- Suitable for gas and dust environments
- Stainless steel 316L wetted components
- A display for direct read-out of level and temperature
- Temperature sense range up to +120C
- Two pairs of analogue outputs (4-20mA and 0-10V)
- Two set point digital outputs
- An RS485 communications port
- Reed switch or Hall Effect sensing technology.
- IP Rating of IP68
- Stem Lengths up to 6m
- Custom mounting options available.
- Optional Modbus
- Can be specified for process temperatures down to -55°C
- Optional custom name plate







**Marine Type Approved  
 F/S-FP Series Stainless  
 Steel Float Switch**



**Hazardous Area Sensors**



**Zener Safety Barrier**



**Hazardous Area  
 Indicators**



**DCS-IS Intrinsically Safe  
Capacitive Sensor**



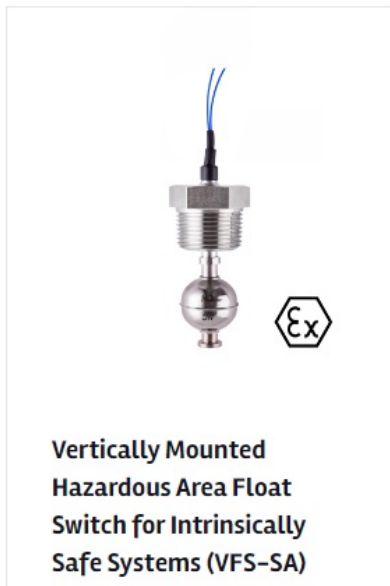
**Explosion Proof  
Continuous Vertical Liquid  
Level Sensor with  
Integrated Display (LVCSI)**



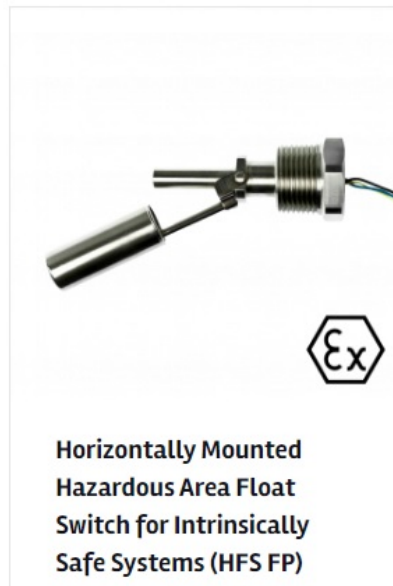
**Explosion Proof  
Continuous Vertical Liquid  
Level Sensor (LVCS-FP)**



**Bespoke Explosion Proof  
Stainless Steel Float  
Switch (F/S-FP)**



**Vertically Mounted  
Hazardous Area Float  
Switch for Intrinsically  
Safe Systems (VFS-SA)**



**Horizontally Mounted  
Hazardous Area Float  
Switch for Intrinsically  
Safe Systems (HFS FP)**





Explosion Proof  
Horizontal Float Switch  
(HFS Ex)



Explosion Proof Vertical  
Float Switch (VFS-FP)



Marine Type Approved  
F/S-FP Series Stainless  
Steel Float Switch



## Explosion Proof Horizontal Float Switch (HFS Ex)

Our first horizontally mounted Ex d sensor, the HFS Ex Explosion Proof Float Switch holds ATEX & IECEx Ex d Certification



## The LVCSi FP Hazardous Area Sensor:

An extension to the LVCS FP sensor, the ATEX/ IECEx certified LVCSi FP has an integrated display and has MODBUS and temperature sensing options. [Click here to read more!](#)



## The DZB Zener Safety Barrier:

With ATEX/ IECEx Ex ia certification, and over 70 variations available, the DZB Zener Safety Barriers are suitable for a wide range of Intrinsically Safe applications.