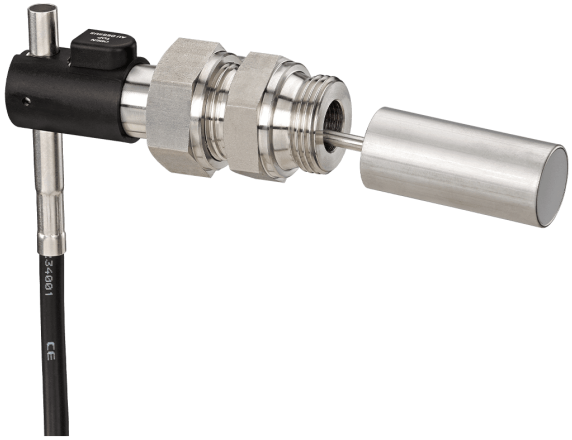
The SIKA level switches are used for reliable monitoring of liquid levels. Applications include:

- dry-run protection
- overflow protection
- leakage monitoring

They are the simple and reliable solution for monitoring liquid levels. The installation is carried out laterally by means of a G¾ or G½ thread. The proven float principle and a potential-free contact as a signal transmitter offer a high level of functional reliability.

VHS - Plug Connector - Brass - Ball Float PVDF



VH6 - Connection Cable - Stainless Steel - Cylinder Float Stainless Steel

Advantages

· Lateral installation by male thread G¾ or G½
· Easy alignment due to union nut
· Versatile due to float options

Technical Specifications

Switching Function
Contact
› opens with falling level
› closes with rising level
Reversing possible

Activation Point, Related to Middle Axis (water, 20 °C)
-4...0 mm (elbow version different)

Hysteresis
Approx. 1...4 mm (elbow version different)

Pressure Rating
PN25

Minimum Medium Density
PVDF-float: 0.78 kg/dm³
Stainless Steel Cylinder Float: 0.83 kg/dm³

Temperature Ranges
Medium: -10...110 °C
Ambient:
› VHS: -25...80 °C
› VH6: -25...100 °C
› VH6...X: -25...80 °C

Electrical Connection
VH3: Plug connector DIN EN 175301-803-A incl. cable socket
VH6: 1.5 m PVC jacket cable

Switching Current
Max 1A

Switching Voltage
Max 230 VAC, 48 VDC

Rating
Max 26 VA, 20 W

Degree of Protection EN 60529
IP65

Protection class EN 60730-1
Class II

Additional Options:

For type VHS:

• Plug connector DIN EN 175301-803-A incl. cable socket with two LED for switching voltages 24 V...230 V AC/DC ±20 %, ambient temperature -20...70 °C

• 4-pin-sensor plug M12 x 1

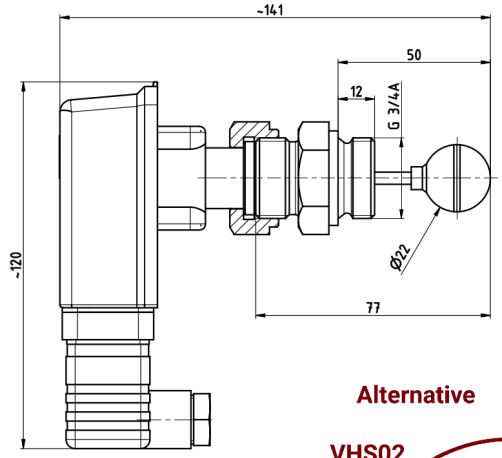
For type VHS/VH6:

• For use in potentially explosive atmospheres (Version VH...X)

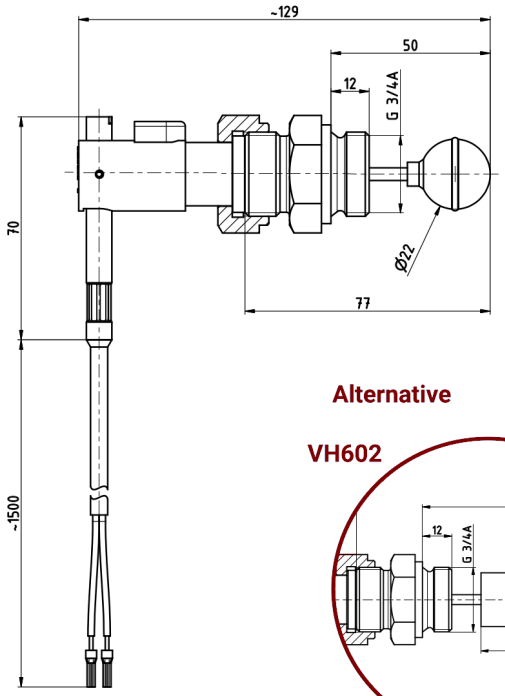
Versions for use in potentially explosive atmospheres VH...X level switches are intended for use in potentially explosive atmospheres with an ignition energy of > 60 µJ. These level switches have been ignition hazard assessed according to DIN EN 60079-11 and have no potential ignition sources. They are therefore not subject to the Directive 94/9/EC.

Technical Drawings

VHS00

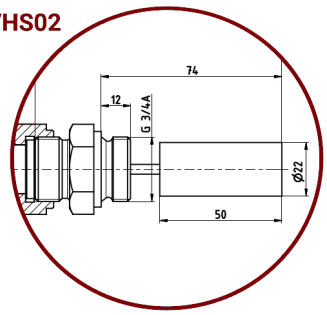


VH600



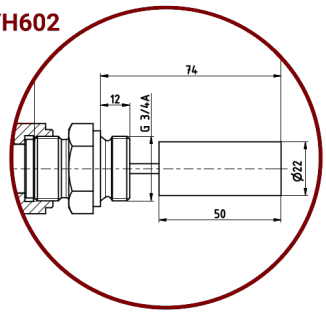
Alternative

VHS02

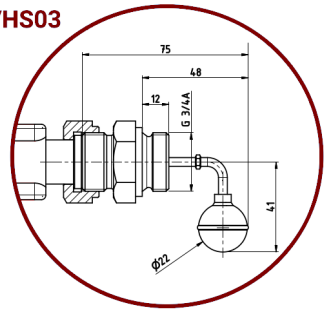


Alternative

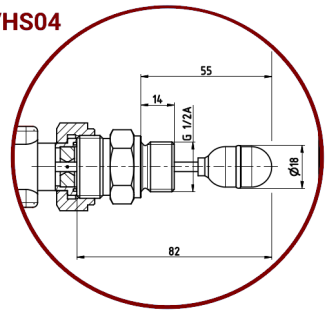
VH602



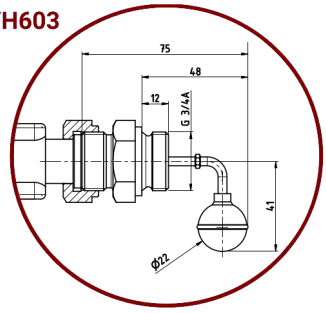
VHS03



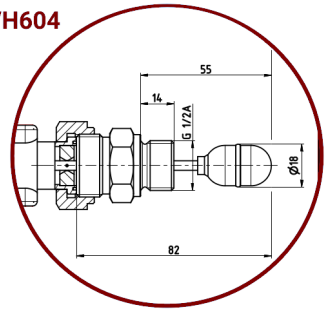
VHS04



VH603



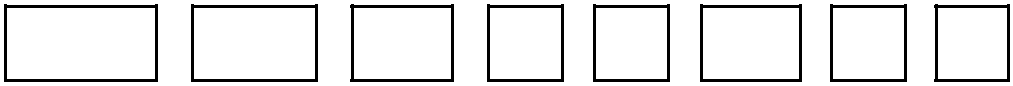
VH604



Materials

Materials in Contact with Fluid		
	Brass Version	Stainless Steel Version
Body, Paddle	Brass CW614N	Stainless Steel 1.4571
Pipe Tee	Brass CW617N	Stainless Steel 1.4571
Bushing	Standard: PVDF Type VH...X: Stainless Steel 1.4571	
Axis	Stainless Steel 1.4571	
Magnet	Hard Ferrite	
Float	Ball Float: PVDF, Brass 2.0401 Cylinder Float: PVDF, Brass 2.0401	Ball Float: PVDF, Stainless Steel A4 Cylinder Float: Stainless Steel 1.4571
Sealing	NBR	

Part Number Guide



Type	
DIN Plug	**VHS0**
Connection Cable	**VH60**

Material	
Standard	**( )****
For use in potentially explosive atmospheres	**X**

** No character

Type of Float	
Ball Float PVDF	**0M0**
Cylinder Float Stainless Steel	**2M0**
Ball Float PVDF - Elbow Float Bar	**3M0**
Cylinder Float PVDF - G1/2	**4M0**

Material	
Brass	**1**
Stainless Steel	**3**

Material	
Brass	**11**
Stainless Steel	**31**

Type of Float	
Ball Float PVDF	**R3**
Cylinder Float Stainless Steel	**R3**
Ball Float PVDF - Elbow Float Bar	**R3**
Cylinder Float PVDF - G1/2	**R2**

Connection	
VHS	
Plug Connector incl. Cable Socket	**7**
Plug Connector incl. Cable Socket with LED	**9**
4-pin-sensor plug M12 x 1	**8**
VH6	
Connection Cable	**1**
Connection Cable Blue*	**3**

* Only for option "for use in potentially explosive atmospheres"

Material	
Brass	**1**
Stainless Steel	**3**

Example:

VHS0M01171R31

Connector incl. cable socket, ball float PVDF, Brass, standard