

Float Switch Type ABS KS

SULZER



For automatic level control, the KS float switch is impact- and shock-resistant, mercury-free and environmentally friendly. Moulded using the latest overmoulding process which provides a fully sealed float switch unit.

Application

The KS float switch is used in liquids for control or signal activation and operates by responding to the liquid level. It is also suitable for use in sewage.

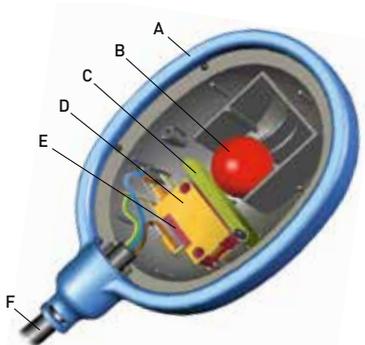
Function

In the KS float switch a ball moves, depending on the floating position, and operates a high quality microswitch. The recessed rolling surface for the ball ensures trouble-free functioning even if the cable is twisted. Varying the switching differential is achieved by adjusting the cable length at its fastening position.

A minimum cable length of 50 mm corresponds to a minimum switching differential of 100 mm.

The switching height itself is set by raising or lowering the fixing point by means of an adjustable weight attached to the cable. Care should always be taken that the float switch can float upwards or downwards without any restriction.

Construction



- A. Overmoulded external seal
- B. Switching ball
- C. Switching lever
- D. Earth bracket
- E. Microswitch
- F. Cable

Technical Data

KS	
Rated voltage	230 V AC, 400 V AC
Rated current: 230 V	8 A
400 V	4 A
Protection class	I
Protection type	IP 68
Switching	Normally Open (standard)
Cable type	H07RN-3G1.0 or A05RN-4G0.75 with free cable ends
Medium temperature	Continuous operation to 60 °C



Features

- Automatic control of pump stations.
- Earth protection.
- Overflow or dry-running protection for pumps.
- Provides a signal where maximum and / or minimum levels are reached.
- Control of motorized valves or other electrical controls.
- In conjunction with intrinsically safe relays, the KS can be used in explosive atmospheres.
- Signal or alarm unit in monitoring operations.
- Available as a dual function version with a core cable for filling and emptying containers.
- Option of PVC cable.

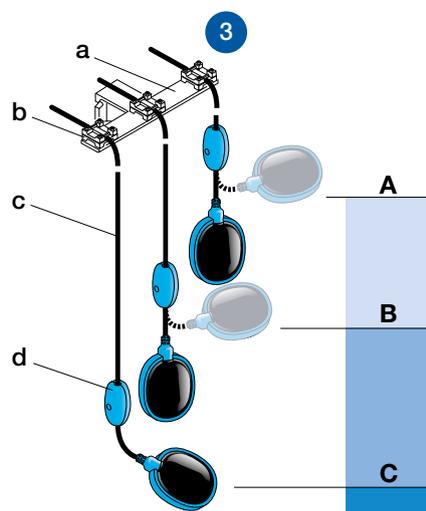
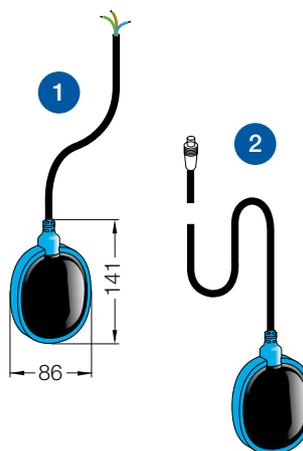
Installation Example



Options

	Description	Size	Part no.
1	KS Float Switch:		
	(standard)	0.55 m	12800018
	Normally Open	1 m	12800282
	with free cable ends	5 m	12800022
		10 m	12800023
		20 m	12800025
		30 m	12800027
		50 m	12800154
	(dual switching) for filling and emptying; 4-core rubber cable with free cable ends	10 m	12800287
		20 m	12800289
	50 m	12800343	
	with fastening	KS-5 = 5 m	62450016
		KS-10 = 10 m	62450017
2	(with plug)		
	for transportable Sulzer control units with KS connecting socket	KS-J 10 = 10 m	62450018
		KS-J 20 = 20 m	62450020
3	Level Control Kits: KS float switch with wall mounting bracket and adjustable weights		
	ON / OFF; for one pump with two floats	10 m	62450052
		20 m	62450054
		30 m	62450056
	ON / OFF; for one pump and alarm with three floats	10 m	62450058
		20 m	62450060
		30 m	62450062
	ON / OFF; for two pumps with four floats*	10 m	62455000
		20 m	62455003
		30 m	62455004

* For level control of two and more pumps a combination of Sulzer level control switches to the desired lengths is available, similar to the application for two pumps with 10 meters cable.



- a. Bracket
- b. Clamp
- c. Cable
- d. Weight

A = ALARM
B = ON
C = OFF

Materials

Description	Material
Float housing	Polypropylene
Cable	Polychloroprene rubber (CR)

Accessories

Description	Part no.
Wall bracket suitable for two, three or four floats.	31420572
Clamp for attaching float to wall bracket	41420570
Adjustable weight for setting switching level	62520011
Float switch hanger where wall bracket is not suitable and a hook is used	41425091

Float Switch Hanger

