

ABS float switch KS

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.

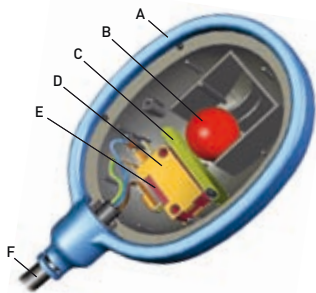
Function

In the KS float switch a ball moves, depending on the floating position, and operates a high quality micro-switch. 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. Micro-switch
- F. Cable

Installation Example



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, 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.

Materials

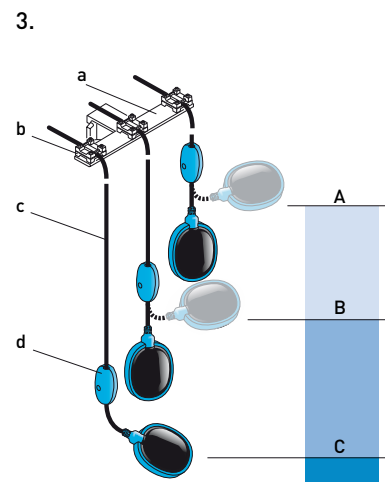
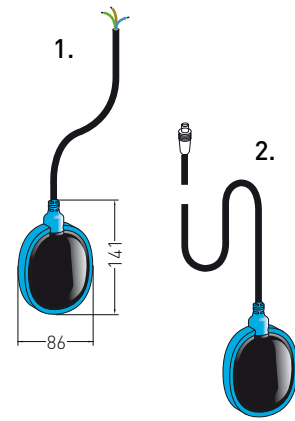
Description	Material
Float Housing	Polypropylene
Cable	Polychloroprene rubber (CR)

Technical Data

Rated voltage	230/400 V AC
Rated current	16(8)/16(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

Options

	Description	Size	Part no.
1.	KS Float Switch (standard) Normally Open with free cable ends	0.55 m	12800018
		1 m	12800282
		5 m	12800022
		10 m	12800023
		20 m	12800025
		30 m	12800027
		50 m	12800154
	KS Float Switch (dual switching) for filling and emptying; 4-core rubber cable with free cable ends	10 m	12800287
		20 m	12800289
		50 m	12800343
	KS Float Switch with fastening	KS-5 = 5 m	62450016
		KS-10 = 10 m	62450017
2.	KS Float Switch (with plug) for transportable ABS control units with KS connecting socket	KS-J 10 = 10 m	62450018
		KS-J 20 = 20 m	62450020
3.	Level Control Kit 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



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

- A = Alarm
- B = On
- C = Off

*For level control of two and more pumps we have available — similar to the application for two pumps with 10 meters cable — a combination of ABS level control switches to the desired lengths.

Accessories

Description	Part no.
Wall Bracket suitable for 2, 3 or 4 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