

LEVEL & LEAK DETECTION



FLOAT SWITCH KCFS SERIES

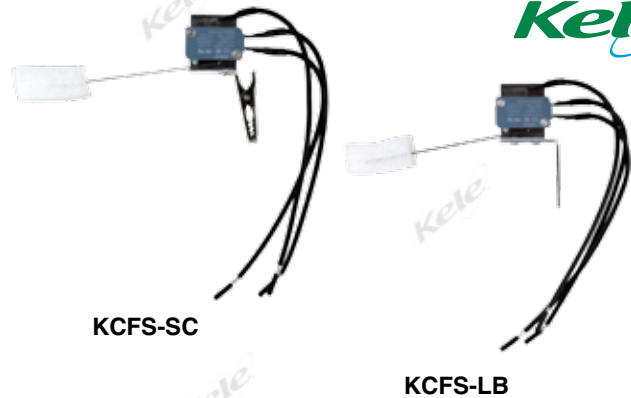


DESCRIPTION

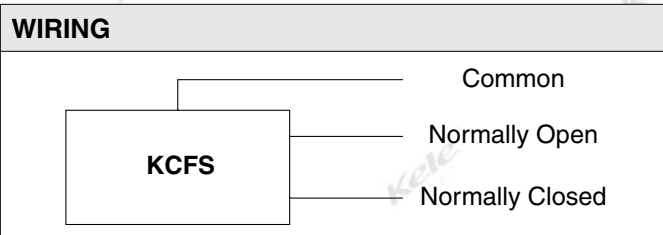
The **Kele KCFS Series** float switch provides a cost effective solution for applications such as condensate drip pan monitoring. The **KCFS-SC** features a spring clip and the **KCFS-LB** an L bracket for mounting.

FEATURES

- *Simple installation*
- *Low cost*
- *SPDT contacts*



SPECIFICATIONS	
Relay Type	SPDT
Relay Rating	5A @ 125 VAC 3A @ 250 VAC
Mounting Orientation	Horizontal
Wiring Terminations	6" (15 cm) leads 18 AWG
Operating Temperature	Maximum 150°F (70°C)
Dimensions	3.5" (8.9 cm) clip to float
Weight	0.2 lb (0.1 Kg)
Warranty	1 year



ORDERING INFORMATION

MODEL	DESCRIPTION
KCFS-LB	Float switch with L bracket mount
KCFS-SC	Float switch with spring clip mount

DESCRIPTION

The **Solutions with Innovation MLS Series** multi-level switch can be customized to meet application requirements. The unit can be configured with up to four independent switch points and stem lengths up to 48" (122 cm). The **MLS Series** is mounted vertically and shipped in the normally open position. For normally closed operation, simply invert the float.

FEATURES

- *Up to four independent switch points*
- *50 VA SPST switch operation (120-240 VAC)*
- *Easy installation*
- *Hermetically sealed*



MULTI-LEVEL SWITCH MLS SERIES



SPECIFICATIONS	
Relay Type	SPST
Relay Rating	50 VA @ 120 VAC
Differential	1" to 1.75", ±1/8" (2.5 to 4.4, 0.32 cm)
Operating Pressure	
Stainless Steel	120 psig (8.3 bar)
Buna-N	150 psig (10.3 bar)
Specific Gravity	
Stainless Steel	0.85
Buna-N	0.65
Wetted Materials	Brass stem, Buna-N float, 316 SS stem, Buna-N float, 316 SS stem, 316 SS float
Mounting Orientation	Vertical (± 30°)
Process Connection	1/2" NPT(M), 1" NPT(M)
Operating Temperature	
Stainless Steel	-40° to 300°F (-40° to 149°C)
Buna-N	-40° to 180°F (-40° to 82°C)
Wiring Terminations	pigtails
Dimensions	Up to 48" L x 1.0" diameter
Approvals	UL File #E203716
Warranty	1 year



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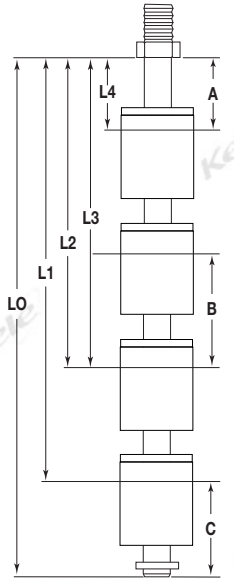
MULTI-LEVEL SWITCH MLS SERIES

MLS ACTUATION LEVELS

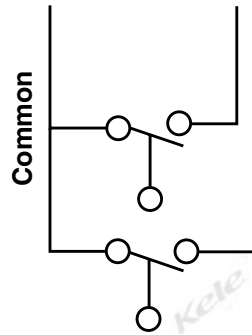
- A = Minimum distance from actuation point to bottom of mounting.
- B = Minimum distance between actuation levels.
- C = Minimum distance from end of unit to lowest actuation point.

Notes:

1. A, B, and C dimensions are based on a specific gravity of 1.0.
2. Minimum distances
 - A= 1" (2.5 cm)
 - B= 1.75" (4.4 cm)
 - C= 1" (2.5 cm)
3. Actuation levels are calibrated on descending fluid level, with water as the fluid, unless otherwise specified.
4. Standard tolerance on actuation levels is $\pm 1/8"$ (3mm).



SWITCH WIRING



Wiring Options	Wire Color
Common Wire	Black
	NO or NC
L1	Red
L2	Yellow
L3	Blue
L4	Brown
L5	Orange

Notes: All SPST switches are set normally open in their "dry", "no level" condition unless specified otherwise. "White-Red" and "White-Yellow" denote single white wire with red or yellow stripes.

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FLOAT SIZES AND OPERATING SPECIFICATIONS

Float Materials	Dimensions	Temperature	Pressure	Minimum Specific Gravity
316 stainless steel	1" x 1"	-40° to +300° F	300 psig	0.95
Buna-N	1" x 1"	-40° to +180° F	150 psig	0.80

ORDERING INFORMATION

MODEL	DESCRIPTION
MLS	Multi-level switch
STEM & FLOAT MATERIALS	
1	Brass stem/Buna-N float
2	316 Stainless stem/Buna-N float
3	316 Stainless stem/316 Stainless float
MOUNTING TYPE	
05	1/2" NPT
10	1" NPT
OVERALL LENGTH	
LO	Total length in inches, (maximum 48", minimum is L1 + 1")
ACTUATION LEVELS	
L1	First float switch point. Specify in (inches)
L2	Second float switch point. Specify in (inches), blank if none
L3	Third float switch point. Specify in (inches), blank if none
L4	Fourth float switch point. Specify in (inches), blank if none
ENCLOSURE	
	None
1	Cast aluminum NEMA 4/7/9 (only with 1" NPT)

MLS - 1 - 05 - 47 - L1(36)L2(22) - Example: MLS-1-05-47-L1(36)L2(22) Two float level switch with brass stem/Buna-N float, 1/2" NPT mounting, 47" total length.

For liquids other than water, consult Kele Technical Support.