

# MAGNETIC LEVEL SWITCHES

The Float assembly carries with it a permanent magnet, which is opposed by a similar magnet in the switch assembly. The adjacent poles of the two magnets are arranged so that they repel each other. It is this principle, which is employed to change over the contacts with a snap action.

## SPECIAL FEATURES

- ❑ Safe & reliable magnetic coupling
- ❑ Glandless - No seal, no spring & no diaphragm
- ❑ Self lubricating PTFE washer for friction free operation
- ❑ ½" NPT or flanged mounting
- ❑ Shock & vibration effect minimum

## OPTIONS

- ❑ External-Cage - (Carbon Steel, MSRL & Stainless Steel)
- ❑ Wide variety of IS/ANSI/BS/DIN/JIS flanges
- ❑ Higher Differential/Adjustable Differential SS/Neoprene Bellows
- ❑ IBR

## APPLICATIONS

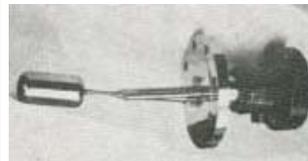
- ❑ Interface detection:
- ❑ High/Low level alarm Day storage tanks
- ❑ Process vessels
- ❑ Explosion proof areas
- ❑ Other applications



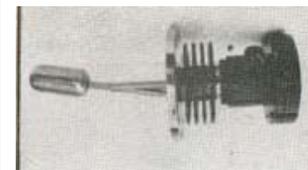
**Model - 3000FS**



**Model - 3000F**



**Model - 1110F**



**Model - 1000F**



**Model - 6000S**

## TECHNICAL SPECIFICATIONS

### MODEL - 3000 F

Type	: Magnetically coupled float type
Working Principle	: Repulsion
Mounting	: Horizontal
Material of construction for float, body & welded parts	: AISI 304SS / AISI 304 SSL / AISI 316SS / AISI 316SSL/ PVC / Polypropylene / Teflon / Ebonite etc.
Switch Cover	: Cast Aluminum / PP weatherproof as per IP - 55 / 65 / 66 / 67, anticorrosive painted
Process Connection	: Flanged 1½ " NB to 6" NB as per IS/ ANSI/ BS/ DIN /JIS standard Standard Size : OD - 120 mm, PCD - 92 mm Thickness - 12 mm Hole Dia - 14 mm (off centre) No. of Holes - 4
Signalisation	: Reed Switch / Micro Switch / Air Break Switch
Contact Form	: 1NO +1NC, 2NO + 2NC
Contact Rating	: 1A 230V AC, 5A 230V AC or 0.25A, 220V DC
Electrical Connection	: ¾" ET, 1" ET, ½" NPT, ¾" NPT, 1" NPT
On - Off Differential	: 12 ± 2 mm (up-to 350 mm for adjustable differential models)
Max. Pressure	: 400 Kg / cm <sup>2</sup>
Max. Temperature	: 550° C
Specific Gravity	: 0.55 to 1.5

### MODEL - 6000 S

Specifications same as model 3000F except

Process Connection: ½" NPT (M) to 2½" NPT (M)

### MODEL - 1000F

Specification same as Model Switch Cover - 3000 F except Cast Aluminium Alloy, LM - 6 approved by CMRI Dhanbad for group IIA & Group IIB gases as per IS : 2148 - 1981 for flame proof & weatherproof IP - 65 as per IS : 2147-1962

### MODEL - 1110 F

Specification same as Model - 3000 F except Switch Cover - Cast Al. Alloy LM 6 approved by CMRI Dhanbad for group IIC gases as per IS : 2148 - 1981 for flame proof / weatherproof IP - 65 as per IS : 2147 - 1965



## D. K. Instruments Pvt. Ltd.

An ISO 9001:2008 Certified Company

76/2, Selimpur Road, Dhakuria, Kolkata - 700 031.

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311.

E-mail: [info@dkinstruments.com](mailto:info@dkinstruments.com), Web Site: [www.dkinstruments.com](http://www.dkinstruments.com)

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