

# DISPLACER TYPE MAGNETIC LEVEL SWITCHES

Buoyant force of the liquid on the displacer is used for movement of the permanent magnet closer to or further away from reed switch and initiates the switching function of high and low level. The unique feature of reed switch technique is adapted. Product technique, concept, merit, quality and unparallel reliability are the underlying reasons for enviable performance record.

## SPECIAL FEATURES

- Safe & reliable magnetic coupling
- Glandless - No seal & no diaphragm
- Self lubricating teflon washer for friction free operation
- 2½" NPT or flanged mounting
- Shock & vibration effect minimum

## OPTIONS

- External-Cage - (Carbon Steel, MSRL, Stainless Steel, etc.)
- Wide variety of IS / ANSI / BS / DIN / JIS flanges
- Higher Differential / Adjustable Differential
- IBR

## APPLICATIONS

- Interface detection:
- Set points – 4 nos. (max.)
- Process vessels
- Explosion proof areas
- Other applications



**1400F**



**9000FS**



**9000F**



**9000F**

## **TECHNICAL SPECIFICATION:**

### **MODEL 9000 F**

Type	- Magnetically Coupled Displacer Type
Working Principle	- Attraction
Material Displacer, body, spring pipe wire rope, wetted parts	- AISI 304 SS / AISI 316 SS / AISI 304 SSL / AISI 316 SSL / Polypropylene / PVC / Teflon etc.
Spring	- Spring Steel, AISI 304 SS, AISI 316 SS
Flange	- Carbon Steel / AISI 304 SS / AISI 316 SS / PP / Teflon etc.
Switch Cover	- Cast Aluminum / PP weatherproof as per IP - 55 / 65 / 66 / 67 anticorrosive painted
Mounting	- Vertical
Process Connection	- Flanged 2½" to 6" or 2½" Screwed as per ANSI, DIN, JIS, BS, IS standard
Signalisation	- Hermetically sealed glass encapsulated Reed Switch
Contact Form	- NO / NC, 1NO +1NC, 2NO + 2NC
Contact Rating	- 1A, 230V AC, 5A 230V AC, 0.25A 240V DC
Electrical Connection	- ¾" ET, 1" ET, ½" NPT, ¾" NPT, 1" NPT
On - Off Differential	- 25 ± 5 mm, 45 ± 5 mm, 60 ± 5 mm or Adjustable.
Repeatability	- ± 1 mm
Accuracy	- ± 2 mm
Specific Gravity	- 0.55 to 1.5
Set point	- Adjustable
Max. Working Pressure	- 400 Kg / cm <sup>2</sup>
Max. Working Temperature	- 400° C
Max. Signalisation Height	- 50 metres
No. of Displacer	- Single, Double, Triple, Quadruple

### **MODEL - 1100 F**

Specification same as Model - 9000 F except,

Switch Cover - Cast Al. Alloy LM - 6 approved by CMRI Dhanbad for group IIA & IIB gases as per IS : 2148 - 1981 for flame proof & weatherproof IP - 65 as per IS : 2147 - 1962.

### **MODEL - 1400 F**

Specification same as Model - 9000 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 - 1962.



## **D. K. INSTRUMENTS PVT. LTD.**

**An ISO 9001:2000 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: [dkinst@vsnl.net](mailto:dkinst@vsnl.net), Web Site: [www.dkstruments.com](http://www.dkstruments.com)

