# **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.



1400F

## **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**

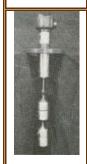
- □ Interface detection:
- □ Set points 4 nos. (max.)
- Process vessels
- Explosion proof areas
- Other applications



9000FS



9000F



9000F

### **TECHNICAL SPECIFICATION:**

#### **MODEL 9000 F**

- Magnetically Coupled Displacer Type Type

Working Principle - Attraction

wire rope, wetted parts

Material Displacer, body, spring pipe - 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

- Flanged 2½" to 6" or 2½" Screwed as per ANSI, DIN, JIS, BS, Process Connection

IS standard

- Hermetically sealed glass encapsulated Reed Switch Signalisation

Contact Form - NO / NC, 1NO +1NC, 2NO + 2NC

- 1A, 230V AC, 5A 230V AC, 0.25A 240V DC Contact Rating **Electrical Connection** - ¾" ET, 1" ET, ½" NPT, ¾" NPT, 1" NPT

On - Off Differential -  $25 \pm 5$  mm,  $45 \pm 5$  mm,  $60 \pm 5$  mm or Adjustable.

Repeatability - ± 1 mm Accuracy - ± 2 mm Specific Gravity - 0.55 to 1.5 Set point - Adjustable - 400 Kg / cm<sup>2</sup> Max. Working Pressure - 400° C Max. Working Temperature

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

69A, Selimpur Road, Dhakuria, Kolkata - 700 031, West Bengal, India.

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

E-mail: info@dkinstruments.co.in, Url: www.dkinstruments.co.in

Marketed By: