

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

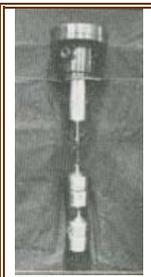
- ❑ Safe & reliable magnetic coupling
- ❑ Glandless - No seal & no diaphragm
- ❑ Self lubricating PTFE washer for friction free operation
- ❑ 2" NPT/BSP or flanged mounting
- ❑ Shock & vibration effect minimum

OPTIONS

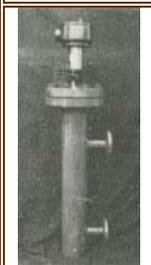
- ❑ External-Cage - (Carbon Steel, MSRL & Stainless Steel, etc.)
- ❑ Stilling Pipes – CS, GI, SS, HDPE, PVC, etc
- ❑ Wide variety of IS / ANSI / BS / DIN / JIS flanges
- ❑ Higher Differential / Adjustable Differential
- ❑ IBR

APPLICATIONS

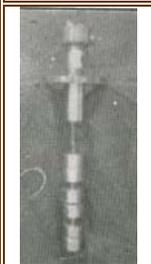
- ❑ Interface detection:
- ❑ Set points – 4 nos. (max.)
- ❑ Process vessels
- ❑ Explosion proof areas
- ❑ Other applications



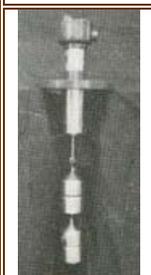
1400F



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 / PTFE etc.
Switch Cover	- Cast Aluminum / PP weatherproof as per IP - 55 / 65 / 66 / 67 anticorrosive painted
Mounting	- Vertical
Process Connection	- Flanged 2" to 6" or 2" 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, etc.
On - Off Differential	- 25 ± 5 mm, 45 ± 5 mm, 60 ± 5 mm or Adjustable.
Repeatability	- ± 1 mm
Accuracy	- ± 2 mm
Specific Gravity	- 0.6 to 1.5
Set point	- Adjustable
Max. Working Pressure	- 400 Kg / cm ²
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 9001:2008 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, Web Site: www.dkinstruments.com

Marketed By: