

Magnetic Float Level Switch Assembly

- Available in PVC | PP | PVDF | 316 SST
- Up to 8 Switching Points
- Excellent Chemical Resistance
- No Power Required



Heavy-Duty Junction Box

APPLICATION

Pumps | Solenoid Valves | ON | OFF | Low | High Alarm | Automatic Tank Filling | Draining

PLF Series are suitable only for Non-Viscous and Non-Coating Liquids

PRINCIPLE

The General purpose PLF Series level switch package provides liquid level detection up to 10' (3m) with 1-8 level switch points and a compact junction box for wiring termination. This all Plastic level switch package is selected for day tank, skid or machine, cooling tower, waste sump or process tank applications, and can be connected directly to a PLC or relay controller.

DESCRIPTION

Single or Multiple Plastic Float Switch Assembly

WIRING

Wiring is done within the junction box

| SPECIFICATIONS | |
|------------------------|---|
| Pressure Limits (20°C) | 75 psi for plastics models 580 psi for SS model |
| Temperature Limits | PVC : 0 – 60°C PP : -5 – 105°C PVDF : -10 – 110°C 316L : -20 – 110°C |
| Contacts | Change over contacts bi-stable Min -100 mm between 2 Contacts Minimum Switching capacity : 60VA |
| Accuracy | ± 2 mm |
| Hysteresis | 8 mm |
| Dead zones | Upper : 60 mm Lower : 50 mm |



Magnetic Float Level Switch Assembly

Material - Stem and Float :

- PVC – 2
- PP – 3
- PVDF – 5
- 316 L – 8

of Contact Floats :

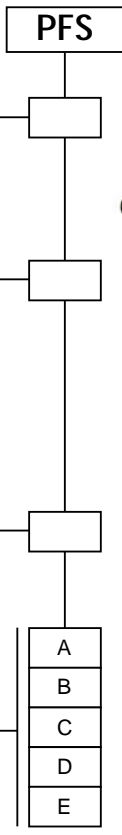
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Switching Position :

- NO – 1
- NC – 2

Dimensions :

- A - Inches
- B - Inches
- C - Inches
- D - Inches
- E - Inches

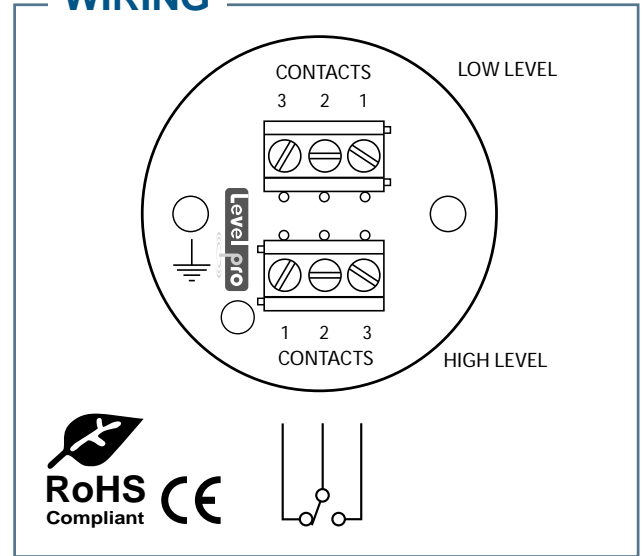


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|-----|--|--|--|--|--|--|--|--|--|
| PFS | | | | | | | | | |
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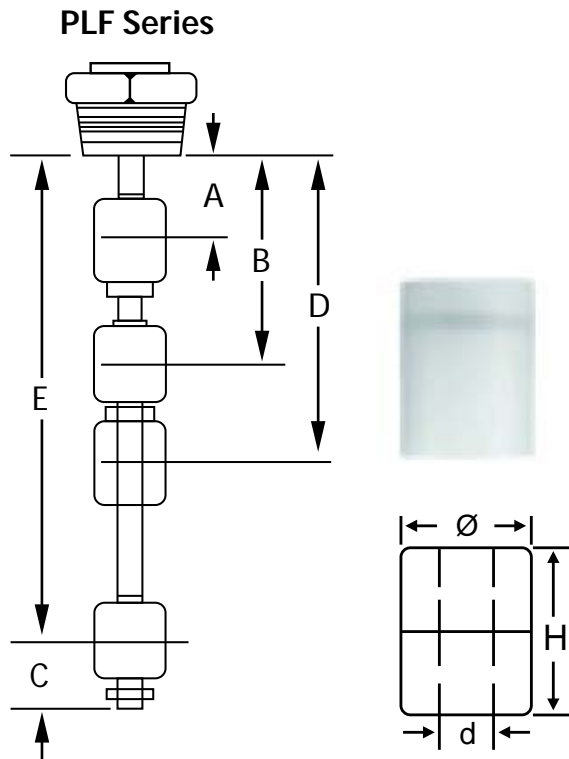
FLOAT FEATURES

| Material | Height mm | Ø mm | Mass (g) | S. W. (kg/L) |
|----------|-----------|------|----------|--------------|
| PVC | 52 | 48 | 20 | 0.65 |
| PP | 52 | 48 | 20 | 0.65 |
| PVDF | 72 | 48 | 40 | 0.90 |
| 316 | 43 | 43 | 24 | 0.70 |

WIRING



DIMENSIONS



Temperature :

The maximum temperature of PP | 80°C | PVDF | 120°C | SS 304/316L | 200°C.

Pressure :

The maximum pressure resistance of plastic floating ball is 75 psi | SS floating ball is 580 psi.

Viscosity :

For viscous liquid, it is better to choose a float with a larger diameter and less density to overcome the surface tension.

Alcohol and Oil etc :

Stainless SUS316

Gravity :

Float's gravity S.G. should be less than liquid's density. Users select corresponding specification of float according to the working pressure, gravity, acid and alkali etc. properties of the tested liquid.