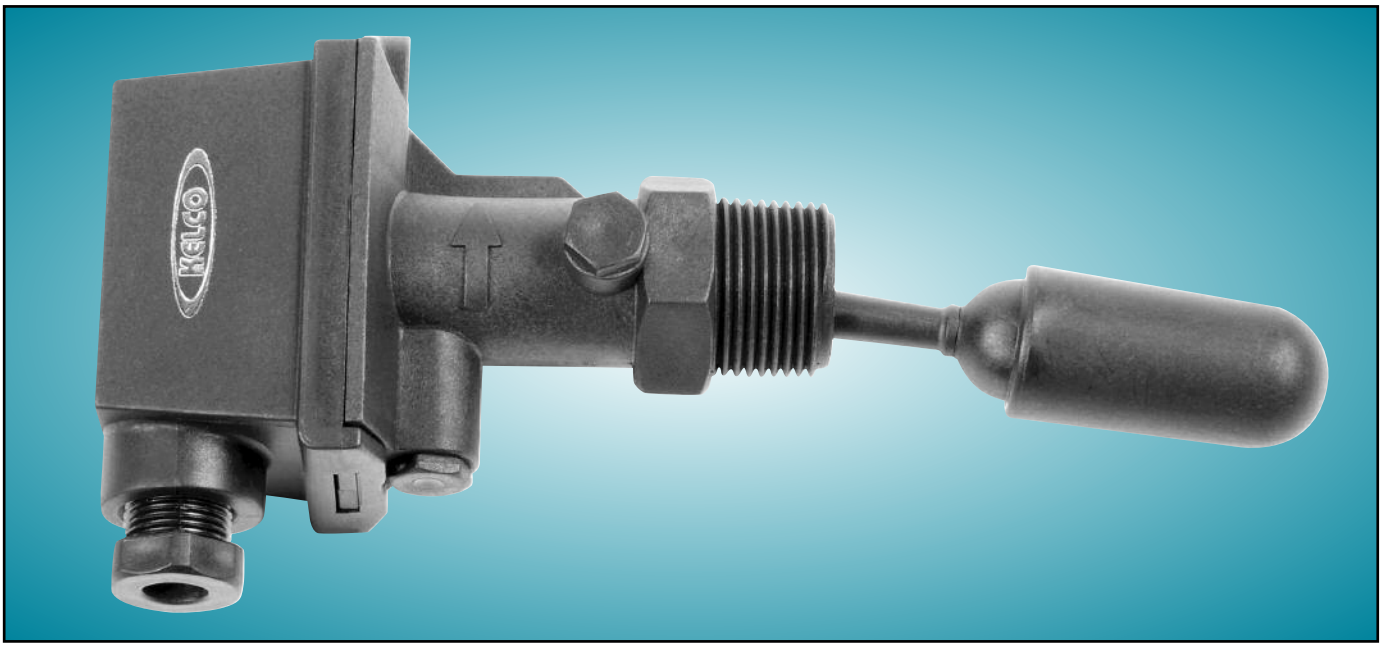
KELCO

# L25 CORROSION RESISTANT LEVEL SWITCHES

## FEATURES

- RELIABLE ROBUST CONSTRUCTION
- WEATHERPROOF ENCLOSURE IP56
- ALL WETTED PARTS IN POLYPROPYLENE
- NO METAL PARTS IN CONTACT WITH FLUIDS
- FULLY ADJUSTABLE LEVEL SENSITIVITY
- SIMPLE TO INSTALL AND ADJUST
- REED SWITCH OR SOLID STATE RELAY OUTPUT
- TOTALLY SERVICEABLE DESIGN
- ENERGY AUTHORITY APPROVED




## APPLICATIONS

- Low level protection for pumps
- Control and signalling in ultra pure water systems
- Tank level status signalling in water treatment plants
- Control of levels in effluent and fluid neutralising systems
- Applications involving sea water or brine solutions
- Safety and control signalling for chemical handling
- Control and protection of chemical pumps

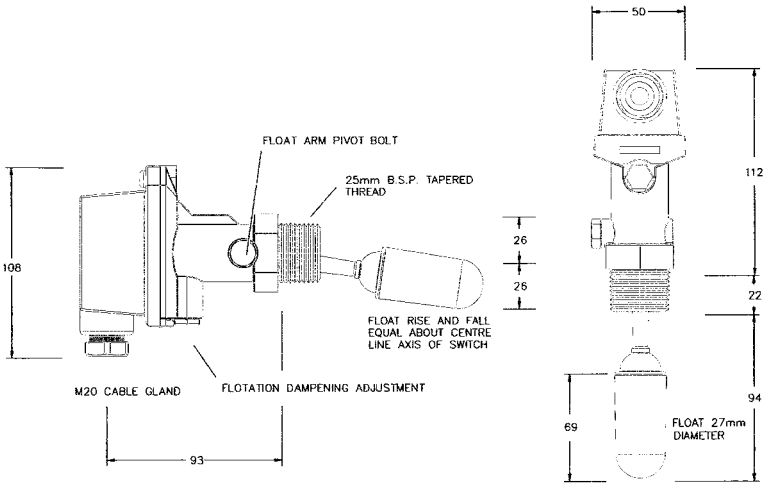
AUSTRALIAN MADE

# TECHNICAL DATA

The L25 series level switch has been specifically developed to fill the need for a level sensor, capable of working reliably in applications in which metal level switches fail. Typical areas include chemical, process, pharmaceutical, scientific and agricultural uses, in which the metal components of traditional level switches either interfere with, or are attacked by, the liquids being handled.

Modern plastic and fibreglass tank systems are used extensively in agriculture, industry, and in commercial and domestic fluid handling. The L25 level switch has been specifically designed to integrate into plastic and fibreglass tank systems, and to enhance the advantages of such systems. Total avoidance of metal components, in contact with the liquid, has been achieved. In addition, an advanced frictionless sensitivity adjusting system gives total external control over the switching threshold.

## DIMENSION SKETCH




## ELECTRICAL DATA

| Switch Model | Electrical Module | Switched Power in Watts Maximum | Switched Voltage AC(r.m.s.) Maximum | Switched Current Resistive AC(r.m.s.) Maximum | Maximum Starting Current Inductive Loads | Motors or Other Inductive Loads |
|---|---|---|---|---|---|---|
| L25-B | Dry Contact Reed switch S.P.S.T. | 40W | 250V | 1A | - | - |
| L25-C | Dry Contact Reed Switch S.P.D.T. | 40W | 250 V | 1A | - | - |
| L25-R | Solid State Relay output S.P.S.T. | 750W | 250V | 5.2A | 100A | 1HP 0.75 Kw Maximum |

## CONSTRUCTION

The L25 series level switches are made from glass reinforced polypropylene.

Polypropylene is non-ageing and is unaffected by ground conditions. It will not support algae or bacterial growth, and has exceptional resistance to most acids, alkalis and solvents. The L25 series level switch should not be used with oxidizing acids or chlorinated organic solvents.

L25 series level switches are intended to be mounted horizontally, in a 25mm B.S.P. socket in the side of tanks. As supplied by the factory, the L25 level switch will give an off condition when the float arm is down, or not being lifted by liquid. The on state will occur when the float is raised by liquid level. This electrical function may be reversed by turning the switch electrical module end for end. Thus an on state will occur when the liquid level drops and the float is lowered.

## OPERATING ENVIRONMENT

| | |
|---|---|
| **Maximum Operating Pressure (Static or Dynamic) at Ambient Temperature** | 1800 Kpa<br>260 P.S.I. |
| **Minimum Burst Pressure at Ambient Temperature** | 7000 Kpa<br>1000-P.S.I. |
| **Maximum Operating Temperature** | 80 Degrees C at a pressure<br>1 bar absolute, see note below |
| **Minimum Operating Temperature** | -20°C |
| **Ph Range Standard Switch** | 1 to 10 |
| **Ph Range with ABS Arm** | 1 to 14 |

**NOTE:** Temperature for the maximum operating pressure shown in the above operating environment table is 15°C, In the interest of safety, when using the L25 series, maximum operating pressure must be de-rated linearly in direct proportion to temperature increase, to a maximum pressure of 1 bar absolute at 80 degrees Centigrade. In other words only use this switch at elevated temperatures in non pressurised systems that are totally open to atmosphere in all circumstances and under all conditions.

NEW SOUTH WALES DEPARTMENT OF MINERALS AND ENERGY APPROVAL No. CS4937N

MADE IN AUSTRALIA BY

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