

## MAGNETIC FLOAT OPERATED LEVEL TRANSMITTER - FLX

It is a simple and reliable technique for continuous level indication and control of any liquid, chemically compatible with the (sensor) material, unaffected by electrical conductivity, temperature, pressure or viscosity. The float is designed for variety of liquids and its unique self cleaning construction is well suited for even sticky or dirty environments with no float hang-ups.

### FEATURES

- Continuous 'Float Type' Analog Sensor, in materials, resistive to most liquids
- Pre calibrated at factory-No Field Calibration required
- 4-20 mA, 2 wire processed output signal
- High Resolution & Repeatability
- Liquid level or liquid / liquid interface detection
- Adjustable, Multiple Alarm Relays
- Customized lengths up to 4 meters
- Intrinsically safe option available
- RS-232, RS-485 compatible

### CONSTRUCTION & OPERATION

It consists of a float & guide stem assembly in non-magnetic material to achieve undisturbed flux. A chain of closely spaced glass encapsulated reed switches & resistors are placed inside the guide tube (Fig.1). During rise and fall of liquid level, the float moves & actuates a reed switch in the chain, through a magnet system within it and develops a proportional voltage. The operation is similar to a sliding resistance potentiometer. The sensed voltage is fed to the transmitter located in the enclosure for conversion to a signal of 4-20 mA.

### SPECIFICATIONS

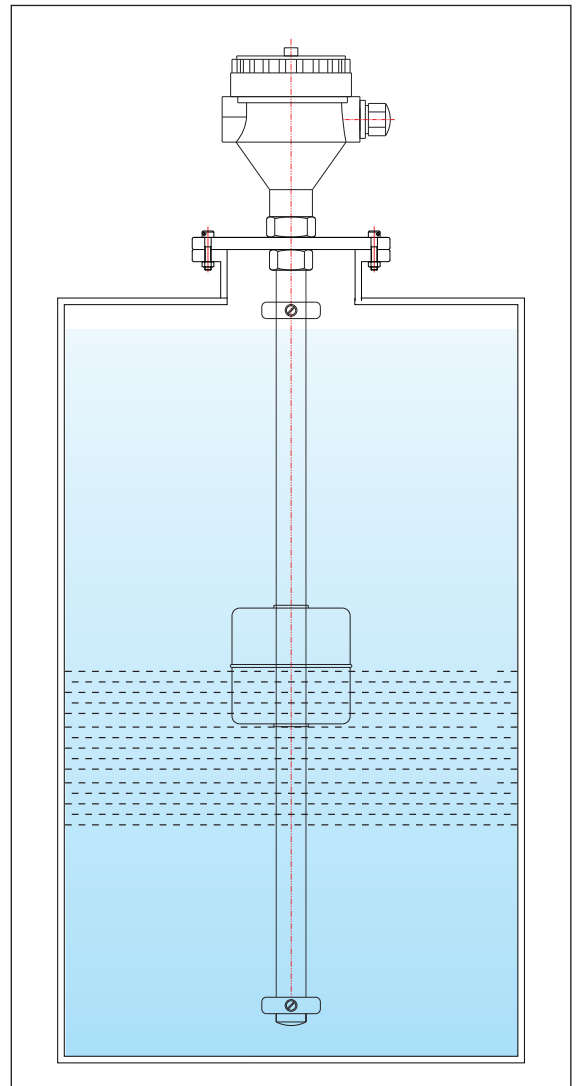
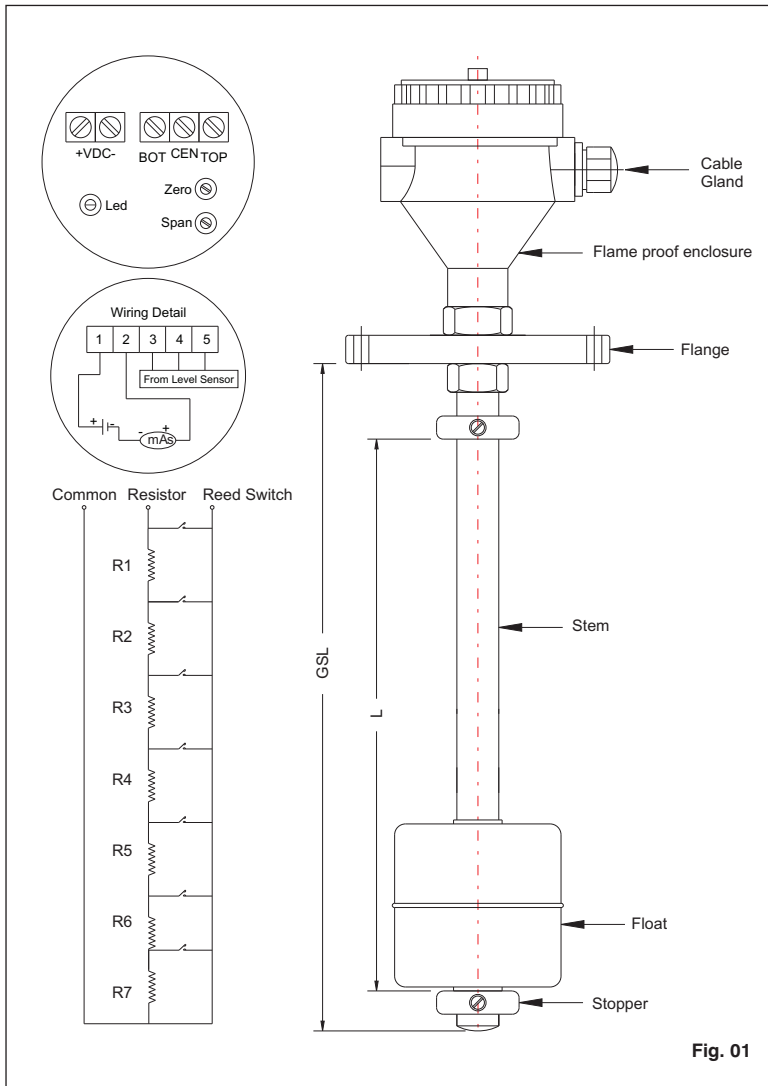
Measuring Range	: GSL - (Top *DB+Bottom *DB)	Process Connection	: 2½" or 3" or 4" NB Flanged to BS (option ANSI or DIN std)
Span (L)	: Min. 300 mm (GSL 375 mm) Max. 3500 mm (GSL 4000 mm)	Output	: DC 4-20 mA (isolated) or 1 to 5 VDC (Optional)
Resolution	: Standard ±12 mm High ± 5 mm	Wiring System	: 2 Wire
Installation	: Top	Max. Load	: 400 ohms
Enclosure	: Cast Al weather proof to IP-66 or Ex proof to Gr IIA & IIB	Max. Temperature	: 150°C (Metalic MOC)
Conduit Connection	: Brass, ¾" ET or ½" NPT	Max. Test pressure	: 10Kg/cm² (Metalic MOC)
Wetted Parts	: SS304, SS316 or PP	Special feature	: Intrinsically safe to Ex ib Gr IIA-IIB
Float	: Ø63x58 mm in SS316		

\*DB - Dead Band

\*GSL - Guided Stem Length



**TYPICAL INSTALLATION INSIDE TANKS**



**APPLICATION**

Storage tanks for oil, Fuel, Chemicals, Pure/Industrial water, Pressurized vessels, Interface applications & Waste water treatment plants.

**ORDERING INFORMATION**

Specify model no., Liquid specific gravity, Operating Temperature & Pressure tank height, Measuring Range (L), GSL and display type.

**LEVEL CONTROLLER (OPTION AVAILABLE ON REQUEST)**



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Note: All dimensions in MM, unless otherwise specified.