

Magnetic Level Switch

SERIES: BLS903

- > TEMPERATURE UP TO 450°C/840°F
- > PRESSURE UP TO 3600 PSI (250 BAR)
- > OPEN OR CLOSED TANK APPLICATIONS
- > REPLACES FLOAT ACTUATED TYPE LEVEL SWITCHES
- > WATERPROOF, INTRINSICALLY SAFE OR EXPLOSION PROOF
- > FOR LIQUIDS WITH SPECIFIC GRAVITY OF HIGHER THAN 0.38

Applications: Boilers Propane Tanks Alkylation Units Chemical Storage Feed Water Tanks Petrochemical Tanks EL SWITCHES EXPLOSION PROOF

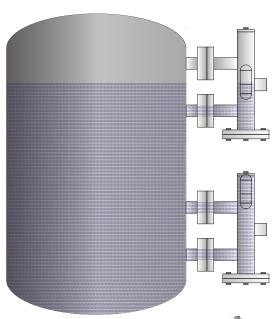
INTRODUCTION

The *BLS903* Magnetic Level Switch is to trigger at a certaib liquid level in boilers, storage tanks, etc. Due to the materials and technology used in the construction of these non-contact magnetic level switches, these instruments are very precise and reliable both at low and high pressures and temperatures.

The *BLS903* level switches use the principle of magnetic coupling to provide level monitoring without direct contact between the switch and the fluid in the system. The float inside the hermetically sealed tube moves with the changing liquid level, and as it travels, the switches which are magnetically coupled to the float will be actuated.

Reed switches or electrical snap (magnetic pendulum switch) are mounted at a certain place on the exterior of the column to be activated at high/low levels. The number of switches is only limited by the length of the column and the switches can be mounted on either side of the column.

These level switches are suitable for applications in chemical and petrochemical industries, sewage water processing, power generation and boilers and the system is more reliable and easier to install and maintain than conventional level switches. Replacing the existing external cage liquid level switches with magnetic level switches would result in improved safety, reduced maintenance, and lower long-term operating cost. Mounting the level switches is an easy task.





SPECIFICATIONS

Chamber & Float Material

Process Connection
Switch Housing
Measuring Length
Operating Pressure
Operating Temperature
Environmental Protection
Min. Specific Gravity
Maximum Viscosity

316L stainless steel (std.); Options: 304L stainless steel, titanium, Monel, PVC, Hastelloy C, polypropylene, Teflon and rubber-lined stainless steel

Flange ANSI/DIN, threaded or butt-weld ABS (std.), Aluminum (Explosion-proof)

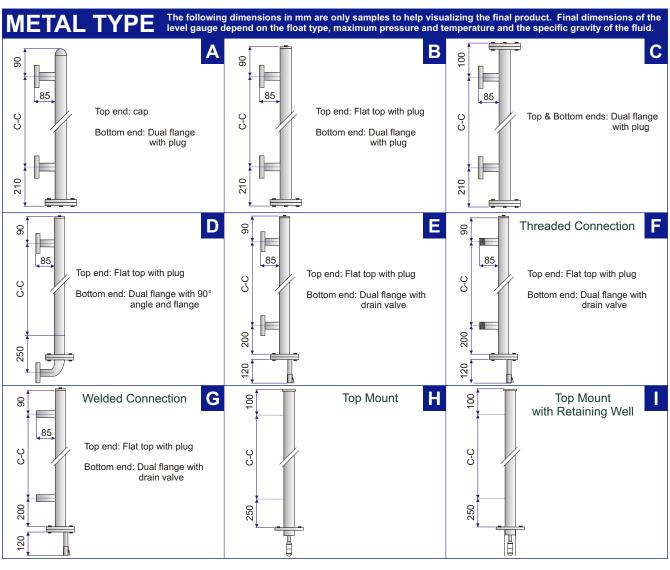
200 mm up to 6 meters; Multi-section for higher lengths

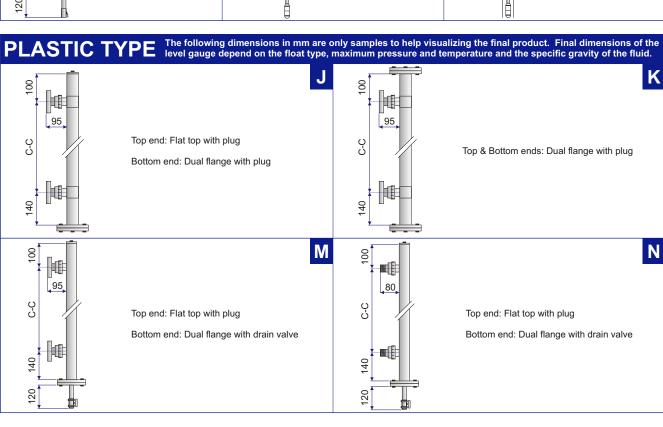
Vacuum up to 3600 psi (250 bar)

-200...450°C

IP67 for the transmitter head

0.38 500 cst





Type: R1

Reed switch bi-stable

Function: N.O. or N.C. Enclosure: IP 67 Voltage: 10-240 V

Maximum Rating: 0.5A / 20W / 30VA

Reproducibility: < 2 mm

Temperature Rating: -40...+105°C Cable Length: 2 or 5 meter Dimensions (mm): 36x26x13

Temperature (option): 140°C maximum



Reed switch bi-stable

Function: N.O. or N.C. Enclosure: IP 67 Voltage: 10-24 V

Type: R2 EExi

Max. Rating: 0.5A / 20W / 30VA

Reproducibility: < 2 mm

Temperature Rating: -40...+90°C Cable Length: 5 or 10 meter Dimensions (mm): 36x26x13

Temperature (option): 130°C maximum

Type: M1

Magnetic Pendulum System (hermetically sealed switch)

Function: SPDT Enclosure: IP 65 Voltage: 10-240 V

Maximum Rating: 2A / 40W / 100VA

Reproducibility: < 2 mm

Temperature Rating: -50...+380°C Cable Entry: Gland (opt M20)

Dimensions (mm): Heat shield 90x60x4



Magnetic Pendulum System (hermetically sealed switch)

Function: SPDT Enclosure: IP 65

Type: M2 EExi

Voltage: 10-24 V Maximum Rating: 0.5A / 20W / 30VA

Reproducibility: < 2 mm

Temperature Rating: -50...+380°C Dimensions (mm): Heat shield 90x60x4

Option: Gold plated

Type: R3 EEx m II T6; EEx ia II C T6

Reed switch bi-stable



Function: SPDT Enclosure: IP 67 Voltage: 10-230 V

Maximum Rating: 0.6A / 45W / 45VA Switching Differential: 9-15 mm

Reproducibility: < 4 mm

Temperature Rating: -25...+85°C Cable length: 5 or 10 meter Dimensions (mm): 98x25x19

Type: M3 EEx d IIC T6; EEx d I 150°C

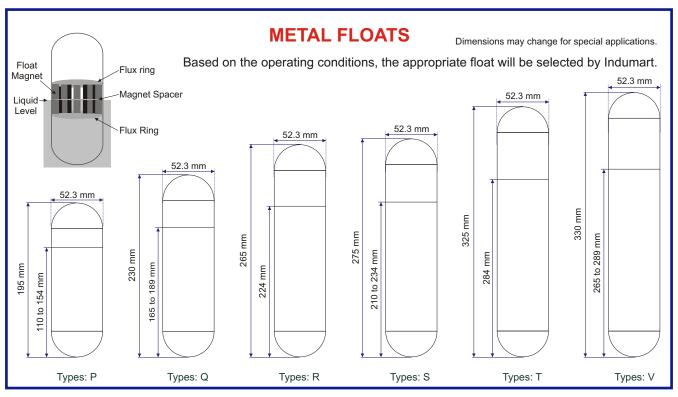
Magnetic Pendulum System (hermetically sealed switch)



Function: SPDT Enclosure: IP 65 Voltage: 10-240 V

Maximum Rating: 2A / 40W / 100VA Temperature Rating: -50...+300°C Cable Entry: ¾" NPT max. 1.5 mm² Dimensions (mm): Heat shield 195x130x4

Options: 2 x SPDT; M20x1.5



Specifications may change without prior notice.

