



**INSTALLATION, OPERATING AND MAINTENANCE MANUAL
FOR LEVEL SWITCHES FLS SERIES (FLS-S, FLS-A)**

FIELDS OF APPLICATIONS

The FLS level switch is employed in the control and regulation of fluids in cisterns, wells, tanks etc. Providing high and/or low alarms of liquids.

OPERATING PRINCIPLE

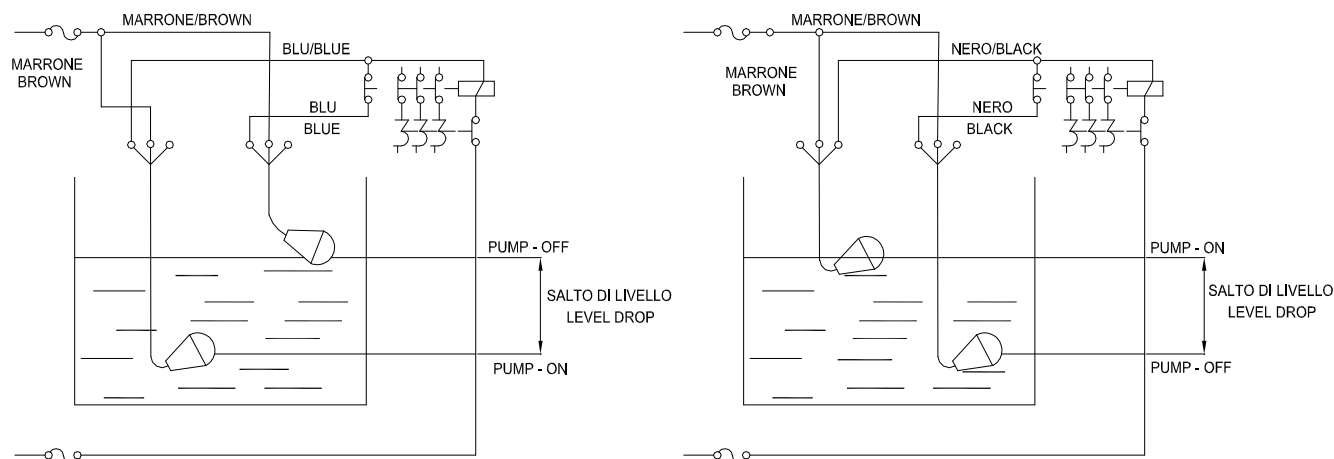
A Polyethylene enclosed deviator hangs from a cable at the required altitude. As the level of fluid changes, the FLS changes its orientation (horizontal-vertical) closing and/or opening its internal contact, which will emit a signal or issue a command to a pump

MECHANICAL INSTALLATION

The FLS switch's cable must be fixed on the internal of the tank using the special hooks. The height at which the instruments are installed determinates the set point. In order to start and stop a pump, two FLS switches must be used

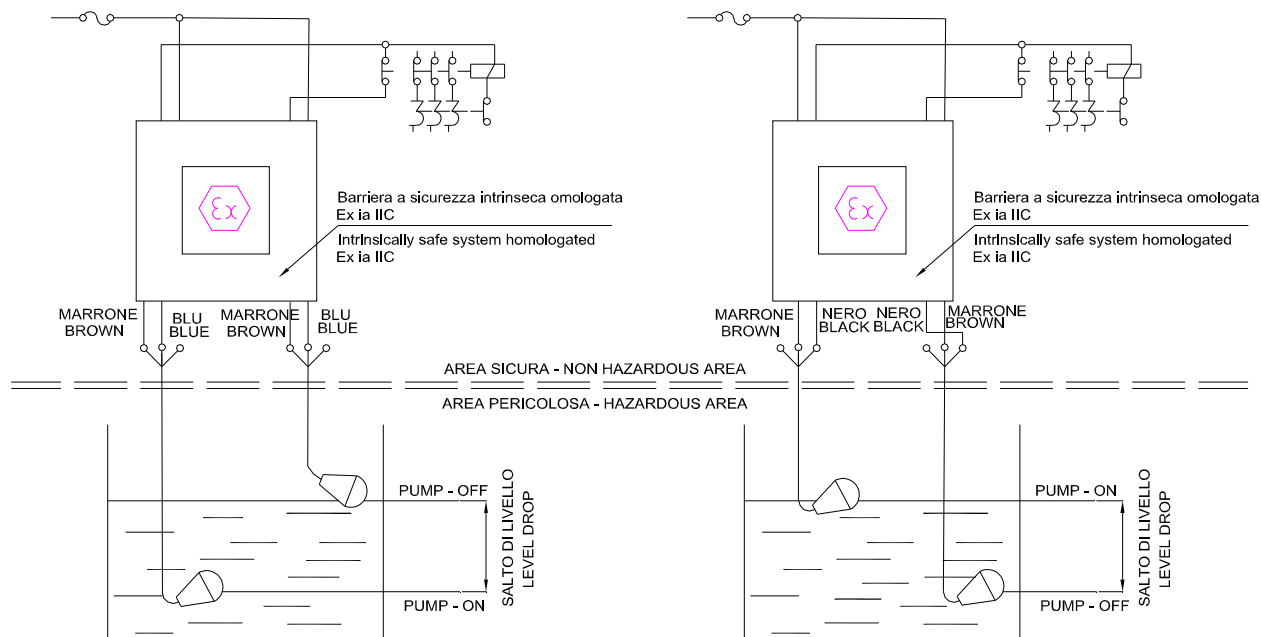
WIRING DIAGRAM

The FLS level switch (FLS-S) is normally connected to a low voltage auxiliary circuit



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In potentially explosive atmospheres the FLS level switch (FLS-A) must be connected to a intrinsically safe circuit.



MAINTENANCE

The FLS level switch doesn't require maintenance since its lacking of moving parts.

It's suggested to check the cable integrity and the correct functioning of the instrument at least once in a year..

If the cable results damaged cannot be individually replaced and the whole instrument must be replaced