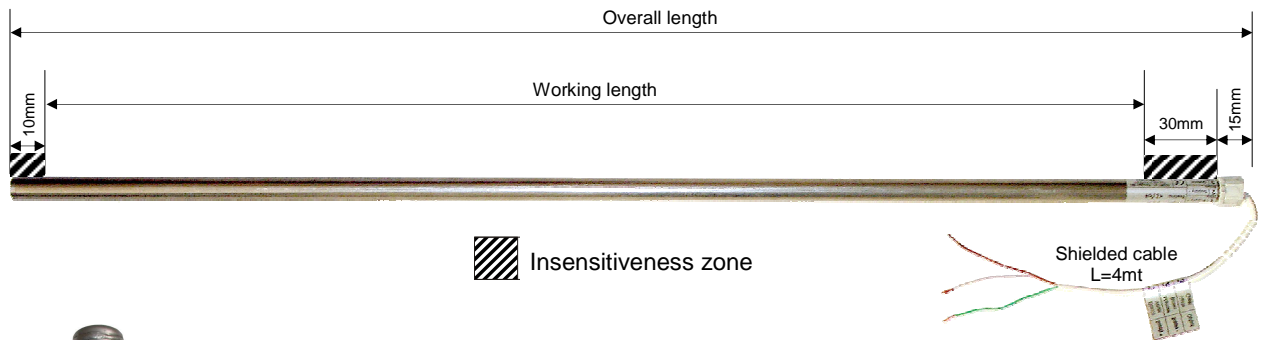


MAGNETIC LEVEL CONTROL REED PROBE Mod. GSH



TECHNICAL SPECIFICATIONS:

Supply:	3 Vdc (stabilized and filtered) - 3 mA MAX from ML transmitter
Reed specification:	10/20 Ampere/turn bulb (using a magnet with a magnetic force of 500 gauss, at a distance of 10mm the reed close)
Raster:	14mm on the whole length
Protection degree:	IP65
Working temperature:	MAX 95°C
Standard probe length:	700 - 900 - 1100 - 1300 - 1500 - 1700 - 1900 mm (other length on request, maximum length 3000 mm)

HOW IT WORKS:

A level measure system with reed probe mod.GSH is based on the positive buoyancy principle, that determines the movement of a float situated in a guide pipe linked with the controlled tank (see photo). Inside the float there is a permanent magnet. The transducer is made with a sequence of series resistances, supplied with constant voltage, inside a 316SS pipe: at every node of the series is connected the contact of a reed bulb. The floating magnet lead to contact closing of the nearest reed, allowing the readout of a fraction of supply voltage, proportional to the measured level. Accuracy of the system rely on the distance between reed bulbs; an excessive small distance between bulbs allow excitation of more than one reed, and thus is a limit to the system precision.

INSTALLATION:

The GSH probe can be fastened to the bypass pipe with 316SS hose clamps and spacers or mounted on the side of the BRF-AC magnetic roller indicator. In case the GSH probe is mounted with downward cable/connector, the supply polarity must be inverted in order to have a coherent level measure. If the probe is used with a toroidal magnet floater (our code SCH1-W) or other floaters with a relevant magnetic force, in order to obtain a correct level measure on the whole range, it is recommend to install it with the lower extremity 10cm below the minimum level to be measured (see photo).

Important: the magnetic float must not overtake the upper limit of the GSH probe.

ELECTRICAL WIRING:

Minimum cable section:	0,5mm ²
Maximum cable length:	250m

Connection cable must have a different path from power cable.

Standard version is equipped with L=4mt shielded cable (GSH-P), on request the probes can be supplied with a DIN43650-C connector (GSH-C).

White / Bianco	1	Supply (+)
Brown / Marrone	2	Supply (-)
Green / Verde	3	Output (U)