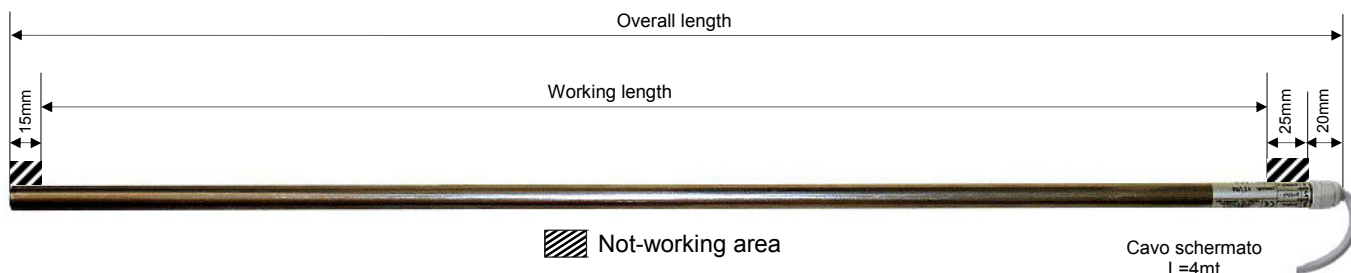


MAGNETIC LEVEL CONTROL REED LEVEL PROBE model GSH-P / GSH-S



TECHNICAL SPECIFICATIONS:

Supply:	5 Vdc (stabilized and filtered) - 3 mA MAX from RL transmitter
Reed specification:	10/20 Ampere/turn bulb
Resolution:	14mm (GSH-P) / 10mm (GSH-S)
Protection degree:	IP65
Working temperature:	MAX 95°C
Standard probe length:	700 - 900 - 1100 - 1300 - 1500 - 1700 mm other length on request, maximum length 3000 mm
Tube materiale:	SS316 Ø14mm (Ø16mm for length >1700mm)

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-M) or other floats 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). To ensure correct closing of GSH reed contacts, distance between magnetic float and probe should not exceed 25mm.

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:	50m
<u>Connection cable must have a different path from power cable.</u>	

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