



Level switch Ni1

1. Application

Type designation level switch (Ni1 L, Ni1 N, Ni1 G and with curved float rod)

Signaling, 2 point control or regulation of liquid levels in containers or pipelines.

The 2 point water level controllers in the steam generator comply with EU directive 2014/68 / EU.

Applied regulations according to EN 12952 and EN 12953.

The liquids must not tend to stick, harden or crystallize, Solids must not be magnetizable

2. Execution

The magnet (permanent magnet), which is supported by the float lever, switches through the pressure-resistant wall
Without contact the magnetic switch located in the switch housing.

3. Technical specifications

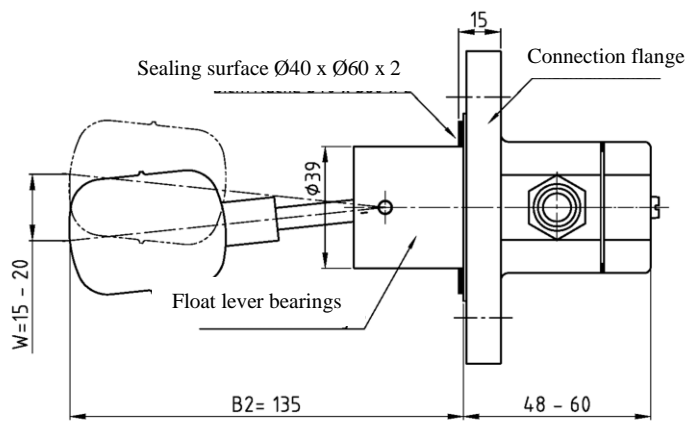
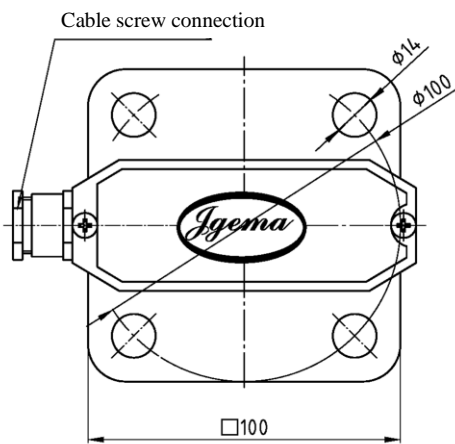
Types:	Ni1 L (lightmetal)	Ni1 N (Niro)	Ni1 G (G1 1/2")
Materials:	Light metal (AL)	Stainless steel (Niro)	Light metal / Stainless steel
Swimmer:	Stainless steel		
Gasket:	Asbestos free		
Allowable pressure: PS		5 bar	
Allowable temperature: TS		160 ° C	
Density ρ min:		0,4 kg/dm ³	
In accordance with DIN EN 60423:		PG 11	
Projective surgeon after DIN EN 60529 (IEC529/VDE 047 T1)		IP 54	
Magnetic switch after DIN EN 61439-2 (VDE 0660):	M130-KG		
Switching function		1 opener und 1 closer	
max. Switching voltage and max. Switching current see type sheet:		Z-07-D-16324-1	



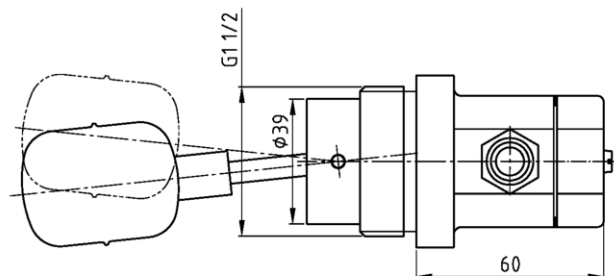
Note:

The Type Ni L (Light metal) can be designed for use in an aggressive medium with a nickelplated housing.

III. 1 Ni1- (L or N)



III. 2 Ni1-G (G1 1/2")

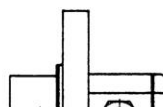


4. Execution (curved float rod)

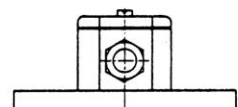
They are used where the float can not be flooded by the medium.



III. 3 horizontal



III. 4 perpendicular



5. Standard dimensions

III. 3 horizontal					III. 4 perpendicular				
w	H1	H2	B1	B2	w	H1	H2	B1	B2
15	65	50	150	95	15	115	100	135	95
20	80	60	175	110	20	135	115	155	110
22	95	73	190	125	25	155	130	175	120
25	105	80	205	135					

Other dimensions on request

Note:

The devices shown in Figures 3 and 4 must be protected against lateral inflow by means of fixed impact plates over the entire movement stroke of the float

Non-permissible materials

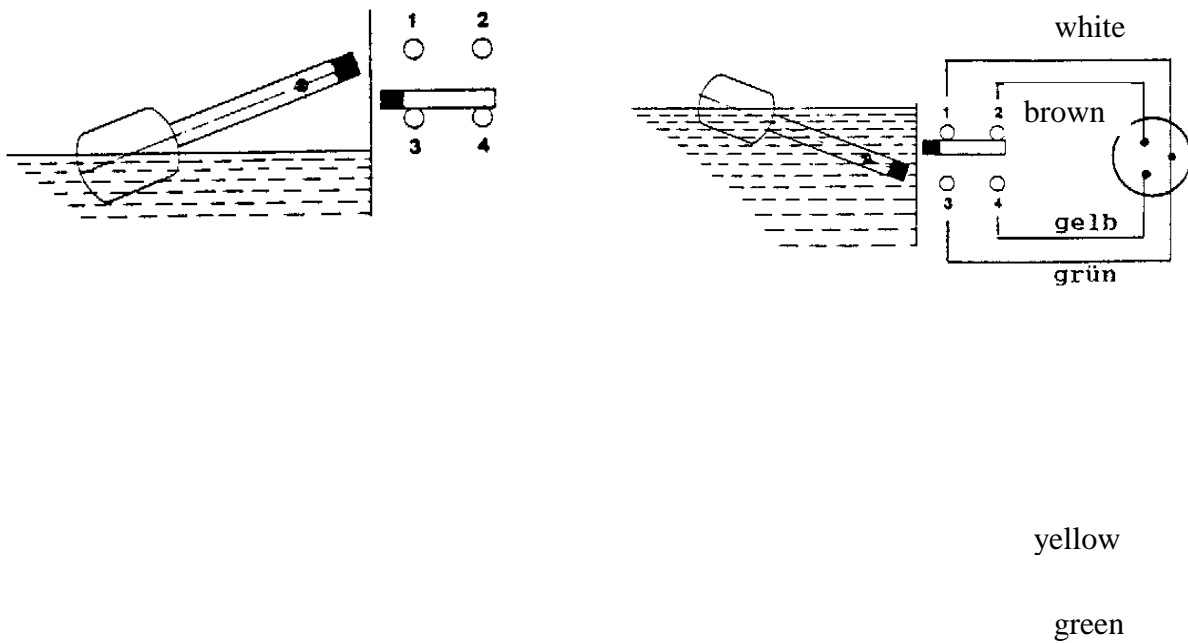
for the baffles: Plastic and light metal

Distance between float and inside baffles min. 5mm.



In order to extend the service life of magnetic switch, we recommend the use of commercially available RC-combinations or a suitable varistor when using inductive devices (e.G. 0,1 μ F/100 Ohm or S20k275 Varistor)

6. Switch position and connection diagram





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This high-quality IGEMA product was developed, manufactured and tested with the QM system specifications according to DIN EN ISO 9001: 2008. Should the delivered device suffer from transport damage or complaints despite our quality final inspection, please contact our SERVICE telephone +49 (0) 611-5687-0.

