



RINA



Series LSG

LSG is a float level switch designed for liquid level control in marine and industrial fields.

Typical applications are high and overflowing protection, water presence detection, high and low alarm level of liquids with or without foam.

Inside the float is placed a toroidal magnet which drives, without contact, a switch located inside the guide pipe; instrument have to be supplied with a constant voltage of 24Vdc (for example by means of TSU400FM barrier) in order to provide two constant current output values related to alarm thresholds (On=5mA / Off=13mA). Switch replacement can be done without dismantling instrument from the process and doesn't need any recalibration.

APPLICATION FIELDS

Detection of water presence. Detection of level in overflow pipes. Simple system for high and low level detection in all tanks, wells, etc. Systems in accordance to IMO and Coast Guard for high & overflow alarms on tankers and chemical tankers.

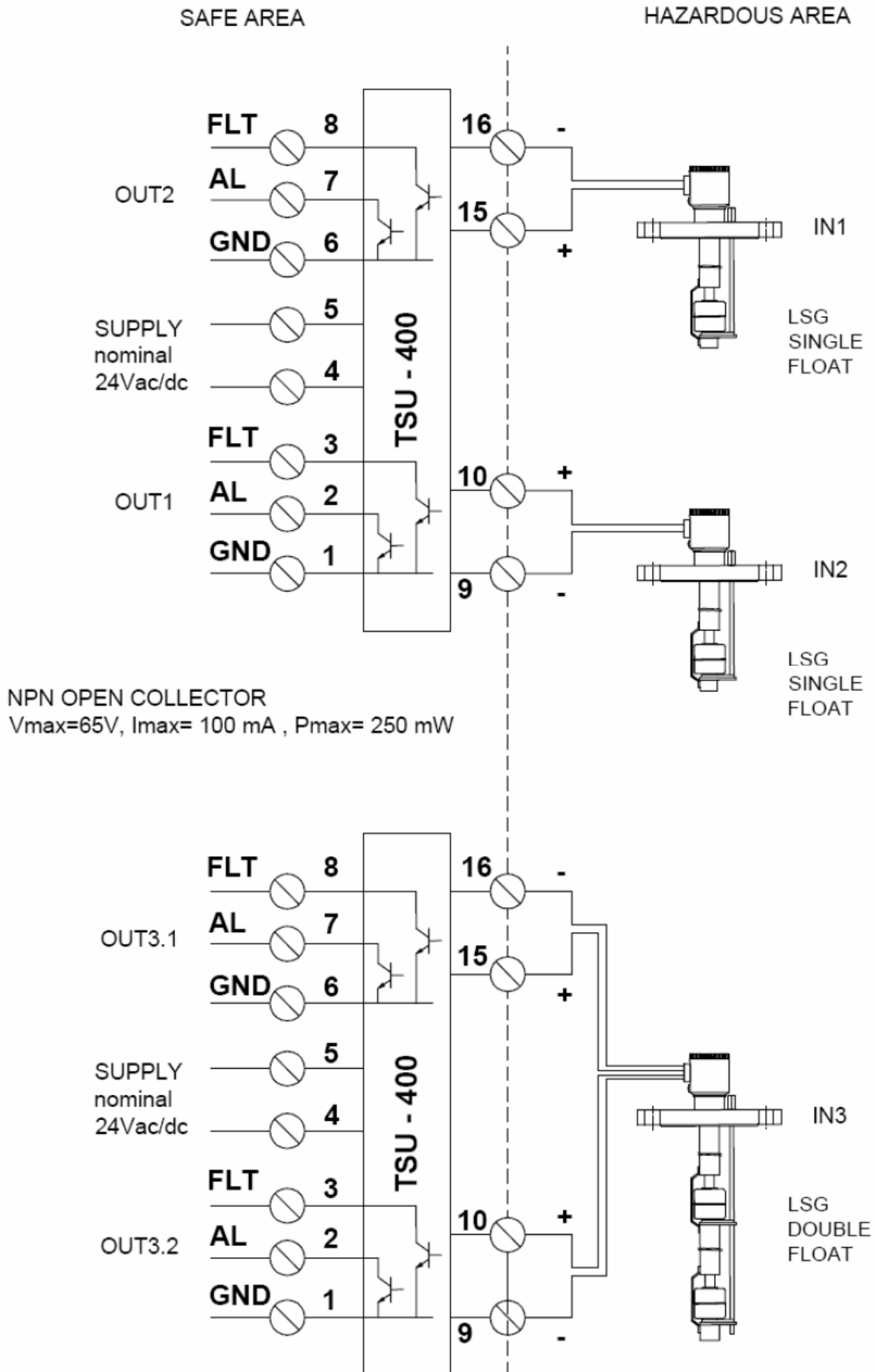
Simple apparatus suitable for use in classified hazardous areas (Ex) according to EN50020 standard

TECHNICAL FEATURES

- Signal output: current absorption (2 wires) ON OFF 5mA / 13mA @ 24Vdc or simple contact
- Repeatability < 1 cm
- Supply 24Vdc stabilized
- Isolation > 5GOhm at 500 Vac
- Process temperature: -20÷85 °C (optional -55÷85°C)
- Storage temperature -35÷85 °C
- Protection rating IP67
- **Pressure: standard 10 bar; maximum 25 bar special version (*)**
- CE marking
- Manual test by means of external lever for each single float (option)

Notes (*): Values depending on float type

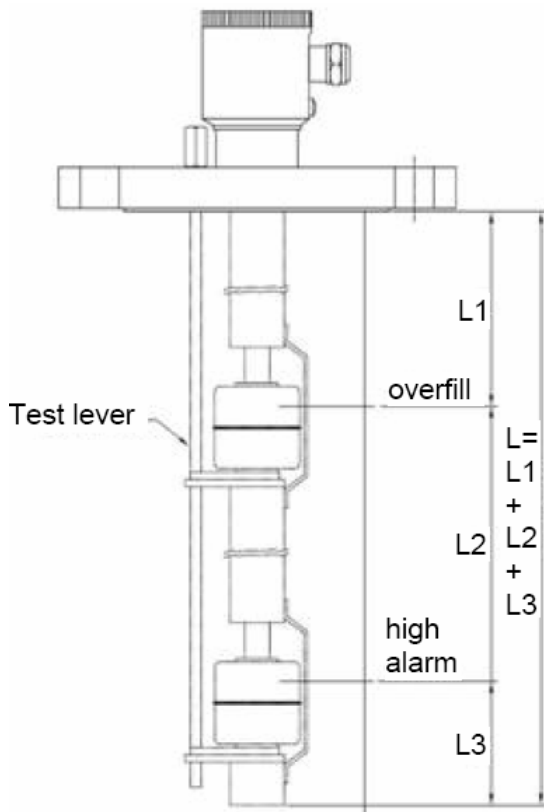
ELECTRICAL WIRING



ORDERING CODES

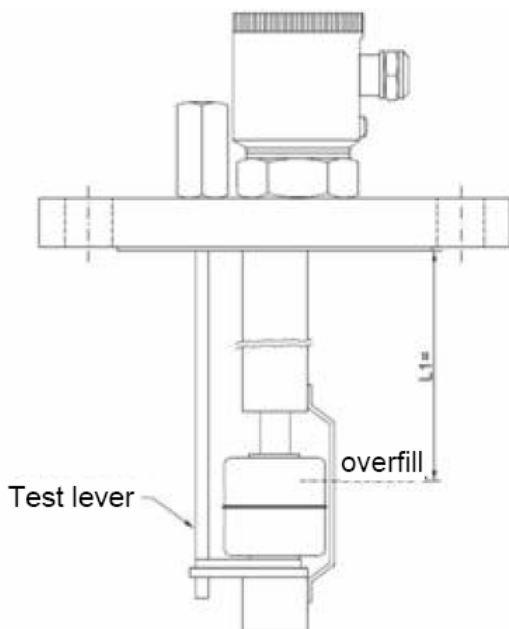
CODE	DESCRIPTION
	VERSION:
D	Double (two floats)
S	Single (one float)
	HOUSING MATERIAL:
A	AISI 316 St.St Ø55
	LENGTH UNDER CONNECTION:
L2T	Pipe L < 2000 mm
L4T	Pipe L > 2000 < 4000 mm
L6T	Pipe L > 4000 < 6000 mm
	OUTPUT SIGNAL:
A	2 resistance loads
C	Open / closed contact
	PROCESS CONNECTION
68	Flange DN 100 PN 16
70	Flange DN 80 PN 16
82	Flange DN 65 PN 16
Z99	Other
	WETTED PARTS MATERIAL
1	AISI 316
Z99	Other
	ELECTRICAL CONNECTIONS:
PG13	Cable gland PG13
R12	Nipple G 1/2"F
R20	Nipple M20 x 1,5F
R24	Nipple M24x1,5F
R34	Nipple M 3/4"GF
	OPTIONS ACCESSORIES
E	TAG transcription
L1=	Switching point float 1 (mm)
L2=	Switchng point float 2 (mm)
L3=	Length of end piece (mm)
N	Marine Type approval
PT	Single test lever
PT2	Double test lever (D version)
ET	Temperature extended range

CODIFICATION EXAMPLE



A) Double float switch, AISI 316 st. st. housing, pipe length under connection <2000 mm, ON-OFF current output, flanged connection DN80, AISI 316 st. st wetted parts, st.st. cable gland PG13, switch point L1=1100 mm, switch point L2=1500, end piece length L3=200 mm, test lever.

Code = LSG D A L2T A 70 1 PG13 L1=1100 L2=1500 L3=200 PT2



B) Single float switch, AISI 316 st. st. housing, pipe length under connection <2000 mm, ON-OFF current output, flanged connection DN65, AISI 316 st. st wetted parts, st.st. cable gland PG13, switch point L1=800 mm, test lever.

Code = LSG S A L2T A 82 1 PG13 L1=800 PT