

# LIQUIDE LEVEL SWITCH

## TYPE SNL



### PERFORMANCE CHARACTERISTICS

Signalization : - only step  
- more steps

Flame- proof version available, EEx dII CT6 type

Switch type SPDT , snap action or reed contact

Process connection : flange ,float chamber with flanges or threaded sockets or threaded connection

### FUNCTIONAL CHARACTERISTICS

Max. electrical rating:

- snap action switch type : version 1 : 2 A at 220 VAC or version 2 : 10 A at 220 VAC

- reed contact switch type : version 1 : 1A at 220 VAC or version 2 : 0,5A at 24 VDC

Ambient temperature range

- 30 °C ... + 80 °C

Process temperature

max. + 300 °C ( at flange level )

Change of level

0 ... 13 mm

Liquid density

- min 0.8 g / cm<sup>3</sup> for standard versions

- min 0.5 g / cm<sup>3</sup> for special order

### PHYSICAL CHARACTERISTICS

- Process connection : see coding

Materials:

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| - float                         | : Stainless steel, W 4571 type    |
| - flange and/ or float chamber  | : Stainless steel or carbon steel |
| - adapter chamber and cap piece | : Aluminum alloy                  |

TYPICAL VERSIONS AND OVERALL DIMENSIONS

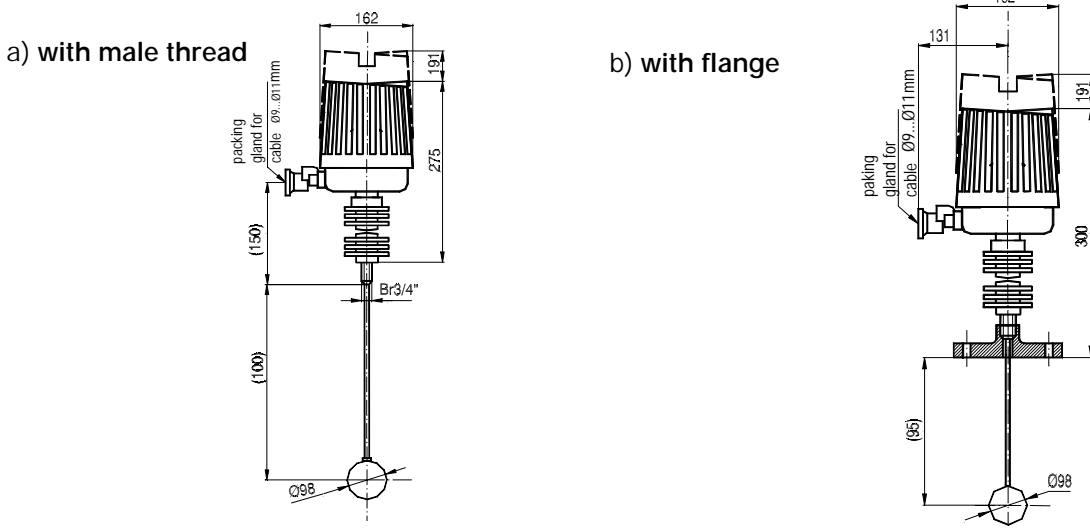
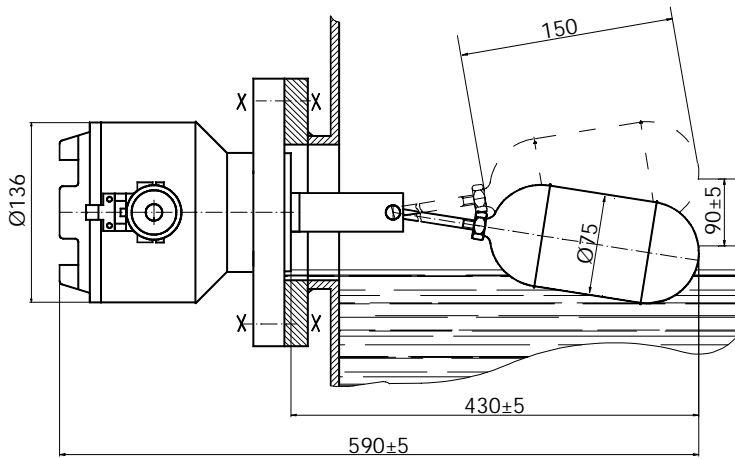


Fig.1 Cover connection process



a) with flange- SNL M X.XX.X.XX.

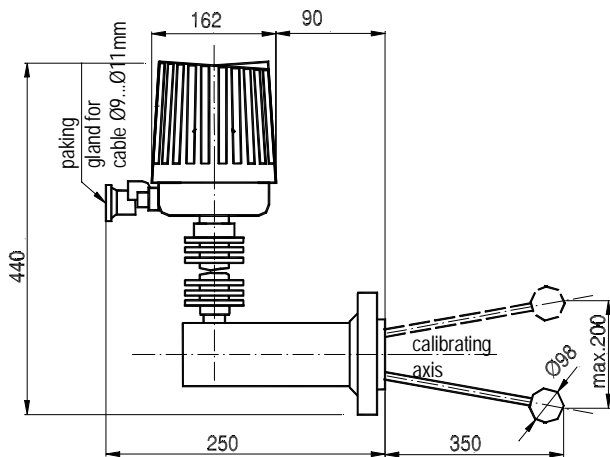


Fig.2 Side process connection

b) with pipe and flange



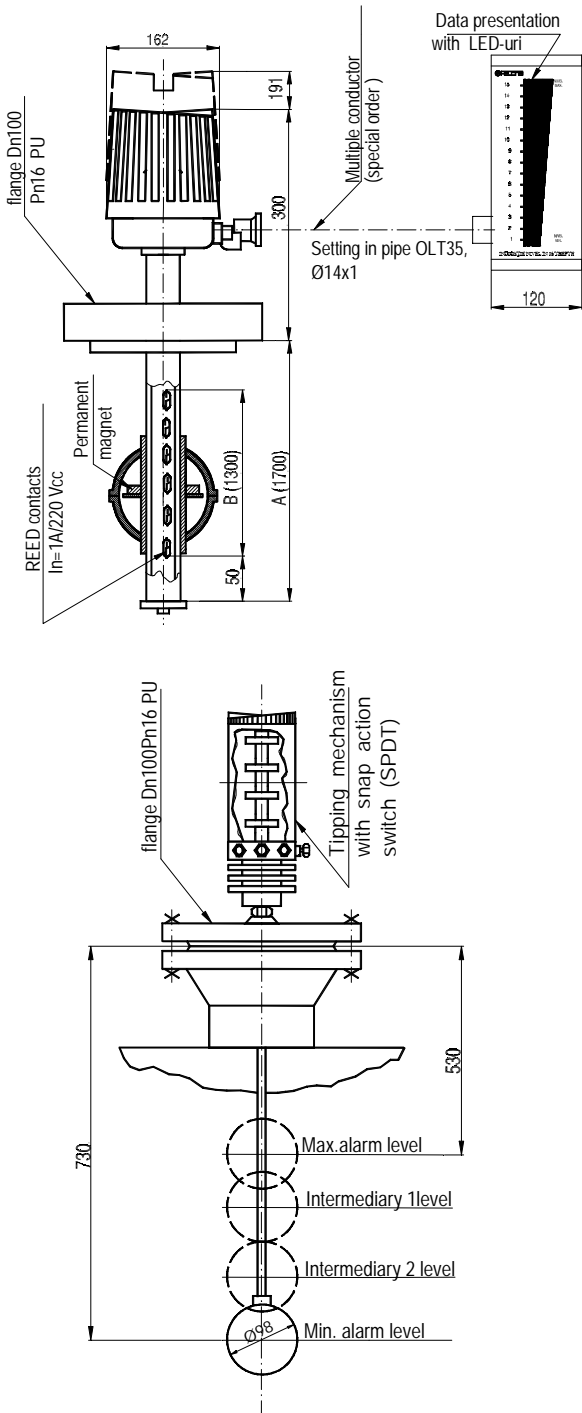


Fig. 5 Cover process connection with flange and more steps of signalization witch

Fig.4 Cover process connection , flanged process connection and one or more switching steps and LED ' s display indicator

**NOTE:** In this case FEPA are used 1300 at a 1700 mm length of pipe for level display, with using 15 contacts . Length of pipe and number contacts correlated witch application type. Amax=6000 mm  
 Level indicator type IN  
 - with LED's display indicator  
 - electrical rating 12 VDC  
 Customer must specificate LED's correlated with contacts number of SNL

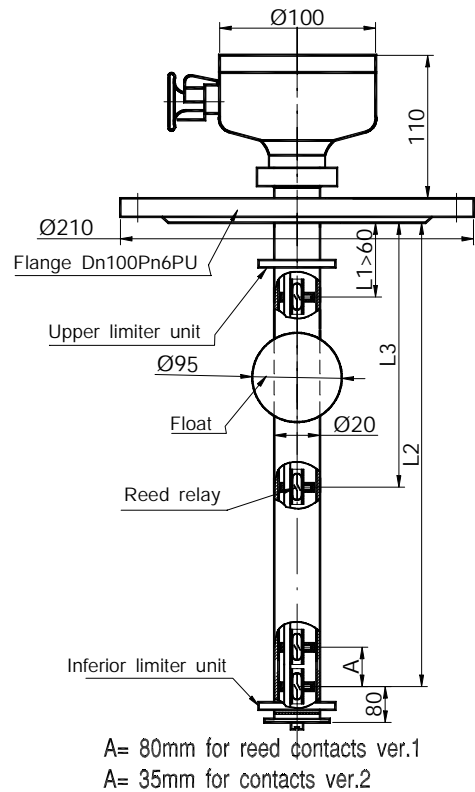


Fig.6 Cover process connection with flange and signalization witch Reed contacts

## CODING (HOW TO ORDER)

Model SNL	XX	X	XX	X	XX	Coding denomination
Coding level	a	b	c	d	e	
						<b>a. Protection type</b>
	01					- working fluid temperature : + 300 °C - EExdIIBT2, EN 50.018
	02					- working fluid temperature : + 200 °C - ExdIIBT3, EN 50.018
	03					- working fluid temperature : + 135 °C - ExdIIBT4, EN 50.018
	04					- working fluid temperature : + 100 °C - ExdIIBT5, EN 50.018
	05					- working fluid temperature : + 85 °C - ExdIIBT6, EN 50.018
	06					- mechanical interlocking IP 65
	07					- working fluid temperature : + 85 °C - ExdIIC(H2)T6, EN 50.018
	08					- mechanical interlocking IP 65, versions with "reed " contacts
	09					- mechanical interlocking IP 65, versions with more steps
	M					- Flame- proof version available, EEx d II CT6 type acc. EN 50018(- Coding only <b>00</b> and <b>01</b> at level <b>c</b> ); fig.2a
						<b>b. Conexiunea electric\ prin presetup\</b>
	1					- for cable MYYM 4x2.5 f 12 (only for " 01" ... " 05 [i M" at coding level a)
	2					- for cable $\phi$ 10 ... $\phi$ 12 (only for " 06" and " 09" at coding level a)
	3					- for armored cable (only for " 07" at coding level a)
	4					- for multiple conductor (only for " 08" at level a)
						<b>c. Process connection (store)</b>
	00					-flange DN 80 Pn 40 PU STAS 1730-89(fig.2a) Coding only M at level a)
	01					-flange DN 100 Pn 40 PU STAS 1730-89 (fig.2)
	02					-flange DN 100 Pn 40 CP2 STAS 1730-89 (fig.2b)
	03					-flange DN 100 Pn 40 PA2 STAS 1730-89 (fig.2b)
	04					- flange 4" 150 lb - RF ANSI B 16,5 (fig. 2b)
	05					- flange 4" 300 lb - RF ANSI B 16,5 (fig.2b)
						Lateral, with float joint
	07					- for version with threaded socket Br 1" and float chamber ( fig. 3a )
	09					- with flange Dn 25 Pn 40 PU and float chamber ( fig. 3b )
						Lateral with floating shell (float in verticality )
	06					- with threaded socket Br3/4" (fig.1a)
	08					- with flange Dn 100 Pn 40 – clear area ( fig. 1b )
	10					- with flange Dn 100 Pn 16 PU (fig. 4) Coding only "08" at level a)
	11					- with flange Dn 100 Pn 16 PU (fig. 5) Coding only "09" at level a)
	12					- with flange Dn 100 Pn 6 PU (fig. 6) Coding only "08" at level a)
						To cover, with float vertical shifting
						<b>d. Length of float rod / pipe</b>
	1					- Standard (fig. 1, 3, 2a)
	2					- Specialty ( only for version with lateral mounting and only for "01" ... " 05" at level c) (fig.2b)
	3					- Special order - only for 10,12 at coding level c)
						<b>e. Number of signalization steps and switch type</b>
	12					- with reed contacts switch, SPDT type - Inom. = 10 A at 220 VAC
	13					- with two reed contacts switch, SPDT type - Inom. = 10 A la 220 VAC
						With only step of signalization
	21					- with two signalization steps and microswitch SPDT - 2A/220 VAC
						- Coding only 11 at level c)(fig. 5)

Model SNL	XX	X	XX	X	XX	Coding denomination	
Coding level	a	b	c	d	e		
					31	- with three signalization steps and microswitch SPDT - 2A/220 VAC	- Coding only 11 at level c) (fig.5)
					41	- with four signalization steps and microswitch SPDT - 2A/220 VAC	
					51	- with REED contact ver. 1	- Coding only 10 and 12 at level c). Customer must specificate contact number and value of A and B at fig. 4 ; L1, L2, L3 at fig.6
					52	- with REED contact ver. 2	
With more step of signalization							