

## MODEL CODE : ELU

### DISPLACER OPERATED

The ELU Series level switch is direct mounting on process vessel or mounted eternally in a chamber. The external chamber and process connections are available in different sizes or material with varied temperature and pressure rating

### PRINCIPLE OF OPERATION

The sensing element is float which works on the floatation principle. The float moves along with the liquid level the float is attached with a magnet in attraction sleeve which moves in a inside and enclosing tube. A magnetically operated micro switch assembly is mounted on the enclosing tube. When the magnet of attraction sleeve comes in the vicinity of micro switch assembly it activates the micro switch, thus gives switching output in terms of SPDT or DPDT .



### SPECIFICATION

Service	: Liquids having viscosity <450 cps, Hydrocarbon, Chemicals
Specific Gravity	: Minimum Specific Gravity 0.7
Pressure	: Maximum Upto 25 kg/cm <sup>2</sup>
Temperature	: 150°C without cooling fins, 350°C with cooling fins.
Differential	: 25 ± 7mm at S.G1.
Enclosing Tube	: 316 Stainless Steel
Float & Float Rod	: 316 Stainless Steel
Electrical Connection	: ½" NPT (Single cable entry standard, others optional)
External Chamber	: Carbon Steel / 304 SS / 316 SS.
Process Connection	: Carbon Steel / 304 SS / 316 SS.
Switch	: SPDT / DPDT.
Switch Enclosure	: Weather proof, Explosion Proof Ex d IIC IP 68
Enclosure Material	: Aluminium Alloy

### Switch & Enclosure Details

TABLE 'A'

Switch Description	Rating		Contacts	Switch Enclosures	
	AC	DC		W. Proof	Ex. Proof
Type 'S' Micro Switch (Silver Plated)	5A, 230V AC	0.5A, 110V DC	SPDT	1A	1F
		or 0.25A, 230V DC	DPDT	2A	2F
Type 'G' Micro Switch (Gold Plated)	5A, 230V AC	0.5A, 110V DC	SPDT	1B	1G
		or 0.25A, 230V DC	DPDT	2B	2G
Type 'T' Micro Switch (Silver Plated) for Process temp of 300°C & above	5A, 230V AC	0.5A, 110V DC	SPDT	1C	1H
		or 0.25A, 230V DC	DPDT	2C	2H
Type 'H' Hermetically Sealed Micro Switch	5A, 230V AC	0.5A, 110V DC	SPDT	1D	1J
		or 0.25A, 230V DC	DPDT	2D	2J

**LEVEL  
SWITCH**

# DISPLACER LEVEL SWITCH



## MODEL CODE : ELU

### HOW TO ORDER

#### BASIC MODEL

#### MOUNTING STYLE

- 3 Side - Side (With external chamber)      5 Top Internal Mounted (Without external chamber)  
 4 Side - Bottom (With external chamber)

#### MATERIAL OF EXTERNAL CHAMBER

- C CARBON STEEL      S AISI SS 304      T AISI 316 SS

#### TYPE OF PROCESS CONNECTION

Screwed Connections		Flanged Connections(As per ANSI B 16.5)							
4NM	1/2" NPT (M)	4BM	1/2" BSP (M)	B09	1/2" 150# RF	B23	1" 600# RF	B52	3" 300# RF
4NF	1/2" NPT (F)	4BF	1/2" BSP (F)	B10	1/2" 300# RF	B33	1 1/2" 150# RF	B53	3" 600# RF
5NM	3/4" NPT (M)	5BM	3/4" BSP (M))	B11	1/2" 600# RF	B34	1 1/2" 300# RF	B54	4" 150# RF
5NF	3/4" NPT (F)	5BF	3/4" BSP (F)	B15	3/4" 150# RF	B35	1 1/2" 600# RF	B55	4" 300# RF
6NM	1"NPT (M)	6BM	1"BSP (M)	B16	3/4" 300# RF	B39	2" 150# RF	B56	6" 150# RF
6NF	1"NPT (F)	6BF	1"BSP (F)	B17	3/4" 600# RF	B40	2" 300# RF	B57	6" 300# RF
				B21	1" 150# RF	B41	2" 600# RF	XX	NON STANDARD
				B22	1" 300# RF	B51	3" 150# RF		

#### MATERIAL OF PROCESS CONNECTION

- C CARBON STEEL      S AISI SS 304      T AISI 316 SS

#### DRAIN

- K 1/2"NPT (F) + PLUG      N 1/2" NPT (M)+ VALVE  
 L 3/4" NPT (F) + PLUG      O 3/4" NPT (M)+ VALVE  
 M 1" NPT (F) + PLUG      P 1" NPT (M) + VALVE

#### CENTER TO CENTER DISTANCE

Please specify in mm (e.g. Write 800 for 800 mm Center to Center Distance)

#### SWITCH & SWITCH ENCLOSURE

Choose from table 'A'

#### OPTIONS

- NACE      K      COOLING FIN      CF

Ordering Example: ELU - 3 - C - 4NM - C - K - 800 mm - 1F - K

Example

ELU

3

C

4NM

C

K

800 mm

1F

K

LEVEL SWITCH