

# Liquid Level Relays

## Liquid Level Relay (SSR-XX)

### Application and Operation Principles

**SSR-XX** : SSR-XX type Liquid level control relays are produced for the level control of conductive liquids. Charging the liquid automatically and systematically from one contains well to another provided with a very precise level controlling function is one of the most significant characteristic.

**SSR-27** : Specially produced to control the liquid level of the steam-iron and performs effective operations at high temperature.

**OPERATION WITH THREE ELECTRODES** : The relay is switched on when the electrodes are in conductive liquid. The relay keeps switching on until the liquid level drops under the electrode (1U). When the liquid level falls below the electrode (2A), the relay switches off and motor stops. The relay switches on when the liquid level reaches at the electrode (1U) and motor starts running.

**OPERATION WITH TWO ELECTRODES**: The bottom electrode (3T) is connected to earth whereas other two electrodes (1U-2A) remain in the conductive liquid. Operation function is same as of 3 electrodes. This relay is used for earthing systems.

#### OPERATION WITH SINGLE ELECTRODES:

**SSR-07** : Only Single electrode is connected provided that the terminal connections of 1U and 2A are connected to earthing.

The relay switches on when the liquid level reaches at the electrode. The relay switches off when the liquid level drops below the electrode. "3T" must be an earth connected. SSR-07 is produced with the standard (fixed) accuracy.

**SSR-17** : An electrode is set free when the electrode contacts at the liquid the relay switches on. In time of out of contact the relay switches off. 3T should be an earth-connected. The sensitivity for SSR-17 type relay is adjustable.

**NOTE** : Earthing connection must be insured for the operations with one electrode and two. The upper and lower electrodes of SSR-07's can be inversely connected at liquid level. The relay can also operate this way.

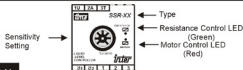
### Technical Datas

Supply Voltage	: 220-240 V AC 50-60 Hz
Contact Output	: 250 V - 5 A
Electrode Resistance	: 10K ohm -50K ohm.
Operation Temperature	: -40°C .... +50°C
Net Weight	: 288 gr
	: SSE-07 228 gr (Elektrod)

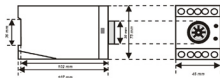
### Order Informations

Type	Supply Voltage	Electrode Resistance
SSR-07	220-240 V AC 50-60 Hz	min, 50K ohm
SSR-17	220-240 V AC 50-60 Hz	10K ohm-50K ohm (ayarli)

### Front View Information

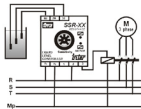


### Dimensions



### Connection Diagram

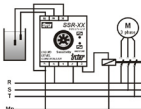
#### Operation With Three Electrode



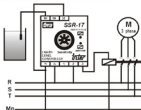
#### Terminals

- a<sub>1</sub> : Supply Voltage Input
- a<sub>2</sub> : Supply Voltage Input
- 1 : Normally Close Contact
- 2 : Common Input
- 3 : Normally open Contact
- Mp : Neutral
- R : R Phase Input
- 1U : Upper Electrode Input
- 2A : Lower Electrode Input
- 3T : Bottom Elektrode Input

#### Operation With Two Electrode



#### Operation With Single Electrode



#### SSR-07 Liquid Electrode

