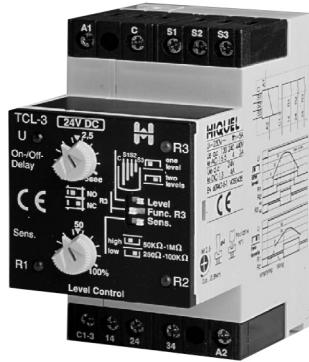


# TCL-3

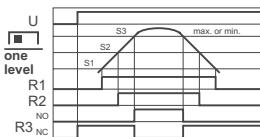
## overview

- ◆ monitors two or three levels of conductive liquids
  - ◆ 3 x N.O. output max. 6A
  - ◆ programmable filling or emptying mode
  - ◆ programmable sensitivity 250 Ohm - 100 kOhm or 50 kOhm - 1 MOhm
  - ◆ LED indicators for power-supply and all three relays
  - ◆ 45mm DIN rail mount housing

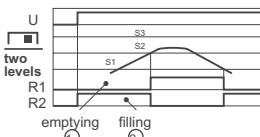


## Function

**Control relay to monitor the level of conductive liquids**  
The TCL controls the level of conductive liquids in a conductive or non-conductive container and works by passing a low voltage through the liquid from suitable probes to an earth return which can either be the container or another probe.



- ① Output relay, function emptying
  - ② Output relay, function filling



- 1 2

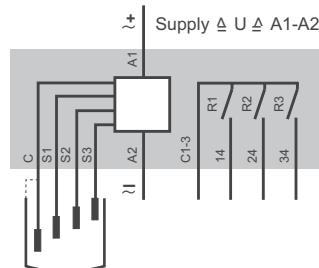
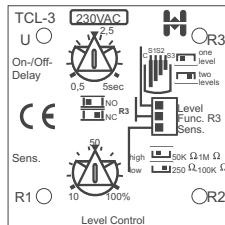
**Single point sensing:** The relays R1, R2 and R3 change over each time the liquid contacts C and S1, C and S2 or C and S3. DIP-switch Function R3 inverts relay 3.

**Two point sensing:**  
The relay changes over  
each time the liquid  
contacts C, S1 and S2.  
The relay resets when the  
liquid level returns  
below S1.

R1... emptying  
R2... filling

S3 can be used to monitor limits.

**Note:** Do not make a connection between A2 and C when using TCL without galvanic isolation.  
(DC supply versions)  
DC-DC isolation on request



## ordering information

<b>part no</b>	<b>supply</b>	<b>output</b>	<b>sup. galv. iso*</b>	<b>housing types</b>	
<b>TCL3 230Vac</b>	230V~	2,5VA	3 x NO	yes	C
<b>TCL3 115Vac</b>	115V~	2,5VA	3 x NO	yes	C
<b>TCL3 24Vac</b>	24V~	2,5VA	3 x NO	yes	C
<b>TCL3 24Vdc</b>	24V=	2W	3 x NO	yes	C

\* The measurement input is galvanically isolated from the power supply.

## liquid level control, 3 levels