DIN



- monitors one or two levels of conductive liquids
- DPCO output max. 6A
- programmable filling or emptying mode
- programmable sensitivity 250 Ohm 100 kOhm or 50 kOhm - 1 MOhm
- LED indicators for power supply, relay and reaction timer
- 45mm DIN rail mount housing or 11pin plug in housing



### **Function**

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Control relay active Contact closed

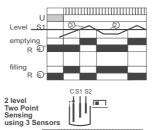
1 level Single Point Sensing using 2 Sensors

min. level

nonitored level

Output relay, emptying function Output relay, filling 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 a suitable probe to an earth return which can either be the container or another probe.

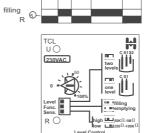


The relay changes over each time the liquid contacts C and S1.

#### Two point sensing:

The relay changes over each time the liquid contacts C, S1 and S2.

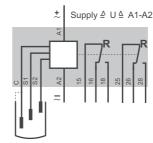
The relay resets when the liquid level returns below S1.



The polarity of the sensor voltage is periodically reversed and is sufficiently low to avoid electrolytic action between the probes.

#### Note:

Do not make a connection between A2 and C when using TCL without galvanic isolation. (DC supplied versions)



# specification

	supply voltage variation	nominal voltage +10% / -20%
	frequency range	48 - 63 Hz
	duty cycle	100%
	delay time	1s (fixed)
	reset time	< 100ms
	max measuring voltage	± 5,3V
	max measuring current	~ 5mA
	probes	cable length max 100m
	output relay specification	max. 6A 230V~
	Ue/le AC-15	120V/4A 240V/3A
	Ue/le DC-13	24V/2A
	expected life time	DPCO SPCO
	mechanical	$2 \times 10^6$ resp. $1 \times 10^7$ operations
	electrical	$1 \times 10^5$ resp. $1 \times 10^5$ operations
	screws	pozidrive 1
	screw tightening torque	0,60,8Nm
	operating conditions	-20 to +60 °C non condensing
		* EN 60947-5-1 VDE 0435

## ordering information

supp	oly	ouput	sup. galv. iso*	housing types
230V~	2,5VA	DPCO	yes	С
115V~	2,5VA	DPCO	yes	С
24V~	2,5VA	DPCO	yes	С
24V=	2W	DPCO	no	С
230V~	2,5VA	DPCO	yes	G
115V~	2,5VA	DPCO	yes	G
24V~	2,5VA	DPCO	yes	G
24V=	2W	DPCO	no	G
	230V~ 115V~ 24V~ 24V= 230V~ 115V~ 24V~	115V~ 2,5VA 24V~ 2,5VA 24V= 2W 230V~ 2,5VA 115V~ 2,5VA 24V~ 2,5VA	230V~ 2,5VA DPCO   115V~ 2,5VA DPCO   24V~ 2,5VA DPCO   24V= 2W DPCO   230V~ 2,5VA DPCO   115V~ 2,5VA DPCO   24V~ 2,5VA DPCO	230V~ 2,5VA DPCO yes   115V~ 2,5VA DPCO yes   24V~ 2,5VA DPCO yes   24V= 2W DPCO no   230V~ 2,5VA DPCO yes   115V~ 2,5VA DPCO yes   24V~ 2,5VA DPCO yes

The measurement input is galvanically isolated from the power supply.



