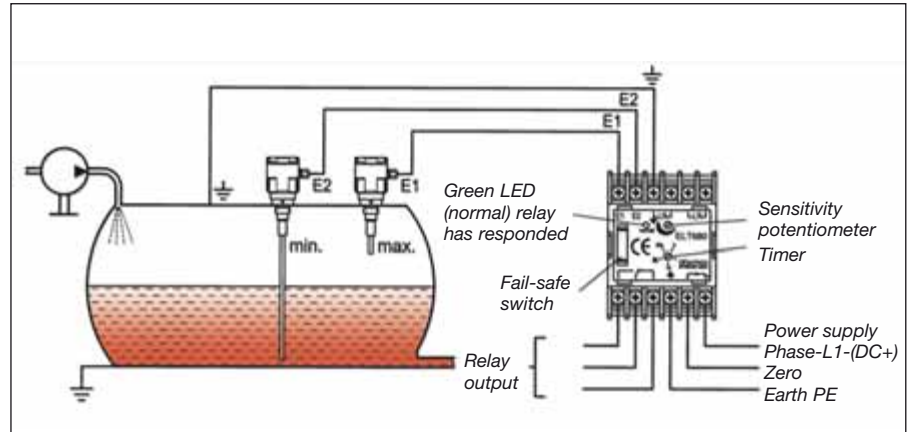


# Conductivity level switch

## CoFox® ELT 680



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### Application

Suitable for use with electrically conducting materials, predominantly liquids, e.g. milk, wine, fruit juices, waste water or lyes. Also suitable for foaming or adhesive media, e.g. beer or yoghurt. Specially designed for applications in the food industry.

### Description

The CoFox® ELT 680 level controller operates on the basis of conductivity.

The built-in timer can be set to avoid undesired switching as a result of surface turbulences.

The sensitivity and adjustment range of the controller have been designed to ignore bridging resistances which could impair the reliability of the unit (e.g. foam across the electrode insulators in breweries, dairies and ice-cream plants).

Furthermore, the unit is capable of interface detection between liquids with different levels of conductivity (e.g. water and milk) in pipes and tanks.

### Switching functions

The unit can be used with either one electrode as a single point controller or with two electrodes for pump „on-off“ control.

### Technical specifications

#### Adjustment range

Variable adjustment  
Range HR 1 kOhm to 100 kOhm  
Range LR 50 Ohm to 2,000 Ohm

#### Operating temperature range

Ambient: -10 °C/+60 °C

#### Supply voltage

DC 24 V

#### Power consumption

2.5 W

#### Probe circuit

Max. AC 3 V

#### Relay output

Relay contact: 1 voltage-free  
changeover contact  
Contact rating: AC 250 V 750 VA  
DC 12 V 1 A

#### Visual indication

Green LED power „on“

#### Timer

Adjustable from 0 to 20 s

#### Fail-safe mode

Integrated selector for min. or max.  
fail-safe mode (low/high)

### Housing

Standard DIN-rail housing made of impact resistant plastic (ABS)  
W x H x D: 73 x 55 x 112 mm

### Protection

IP 40 (EN 60529)

### Options

- Supply voltage AC 230 V

### Probes

The probes are not included. Please order separately (refer to pages 43, 44)! Select according to the operating conditions. Special customer-specific probes are available in addition to the standard probes.

Version	DG	Part no.	Price €
<b>ELT 680</b> DC 24 V	E	<b>53682</b>	
<b>ELT 680</b> AC 230 V	E	<b>53681</b>	
Accessories			
<b>Alarm reset unit AQ 220</b>	E	<b>53230</b>	
<b>Combined alarm light and korn</b>	G	<b>61020</b>	
<b>Cable extension fitting KVA</b>	G	<b>40041</b>	