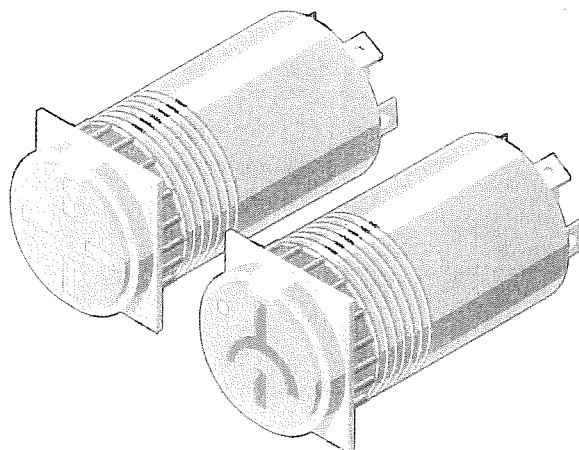


# EST-L Electronic Position Indicator

**Switching state indicator or  
indication of line and switch  
defects**

**Degree of protection IP 54**



## Description

The EST-L electronic position indicator serves to indicate on flow schemes the condition of elements.  
For different elements exist following symbols:

### Earth, Switching truck, circle

- symbols according to switch condition
- indication of readiness or malfunction in power circuits by means of LED-symbols or point.

### Cross

- indicates switch or valve on off position
- indicates faults of the electronic control by means of crosswise arranged bars of 2 lightend areas each.

In case of an operating voltage cutoff caused by faults, the LED's remain extinguished.

The EST-L provides single- or two line control.

Fixing on the panel is effected by means of a ring nut.  
A square diaphragm which is supplied on request, may be arranged behind the round front ring.

## Technical Data

### Indication

Earth, Circle,	
Switching truck	: LED red, green or yellow
Readiness indication	: LED lightspot green, red or yellow
Cross	: LED yellow or vertical red/horizontal green

### Control voltages

	: 12, 24, 42, 48, 60, 100, 110, 220, 230 VAC or DC
	: $\pm 10\%$ für AC + 25 % - 15 % für DC
Power consumption	: max. 1,6 W at 230 V AC
current consumption	: for volt. > 60 V   < 60 V
Earth, Circle,	
Switching truck	: 7 mA   14 mA
stand-by	: 4 mA   8 mA
Cross	: 5,2 mA   10,4 mA

### Operating conditions

Operating temp.	: - 10 °C ... + 70 °C
Storage temp.	: - 20 °C ... + 40 °C
Degree of protection	: IP 54, terminals IP 00

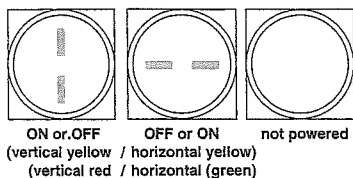
### Case design

Case	: polyamide, with ring fastener
Dimensions	: refer to outline drawings
Panel cutout	: 32 mm diam
Panel thickness	: max. 13 mm
Terminals	: for 6.3 quick-connect receptacle
Weight	: approx. 50 g
Accessories	: (belongs to delivery) mounting ring, 3 flat plug sleeves 6,3

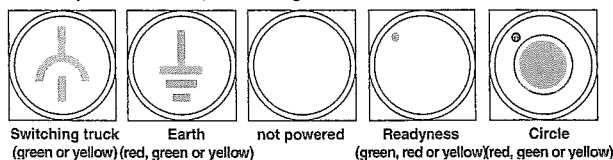
### CE-sign

Safety requirements for electrical equipment for measurement, control and laboratory use DIN EN 61010-1  
Degree of protection provided by enclosures EN 60529

**Symbol: Cross**



**Symbols: Earth, Switching truck, Circle**



## Ordering text

Order no.

EST - L - 1746 - xx - xxx - xx

### Control voltage:

12 V	01
24 V	02
42 V	03
48 V	04
60 V	05
100 V	06
110 V	07
220 V	08
230 V	09
125 V	10

### Symbol:

Earth, red	1 1
Earth, green	1 2
Earth, yellow	1 3
Switching truck, red	2 1
Switching truck, green	2 2
Switching truck, yellow	2 3
Cross, yellow	3 3 0
Cross, vertical red/horizontal green	3 4 0
Cross, vertical green/horizontal red	3 5 0
Circle, red	4 1
Circle, green	4 2
Circle, yellow	4 3

### Readiness indication:

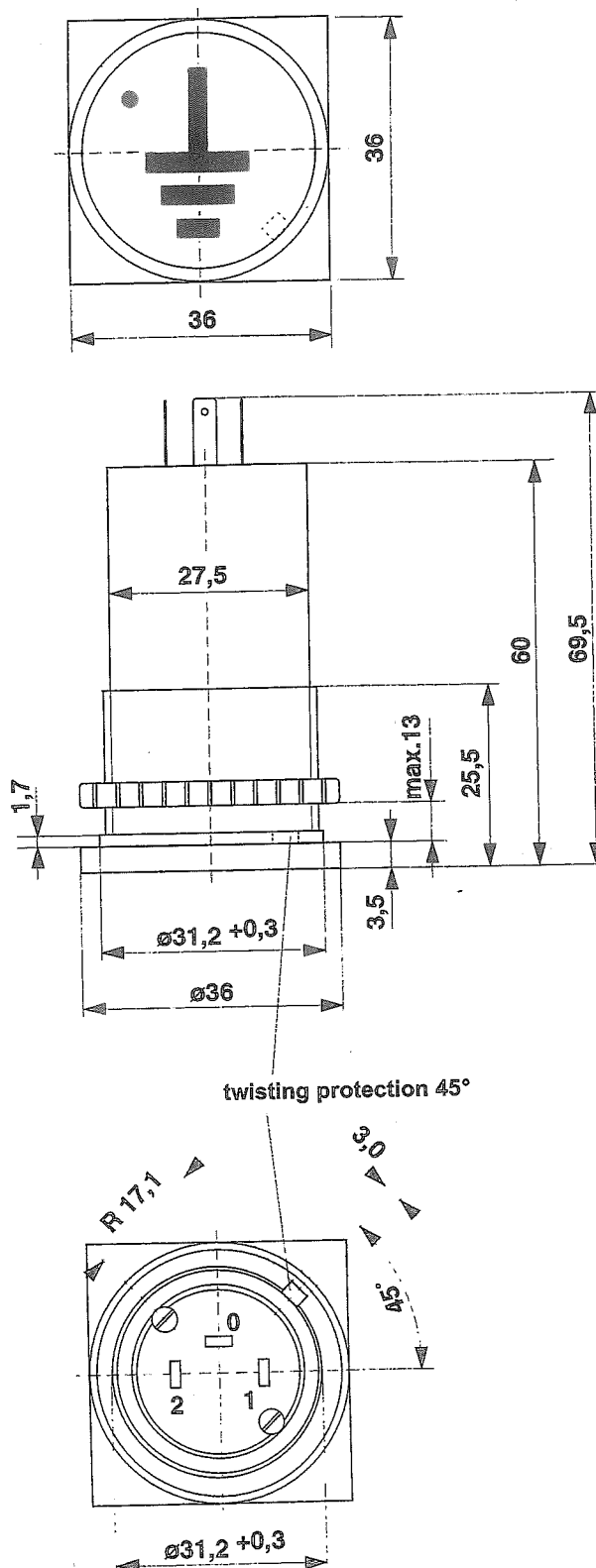
without	0
LED, green	1
LED, red	2
LED, yellow	3

### Diaphragm:

with	1
without	2

### twisting protection:

without	0
with	1



Dimensions

As of: 06.05.2003

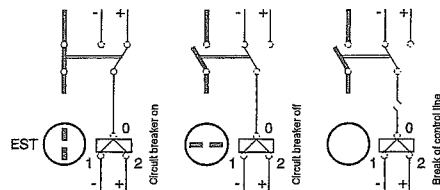
Subject to technical modification

# EST-L Electronic Position Indicator

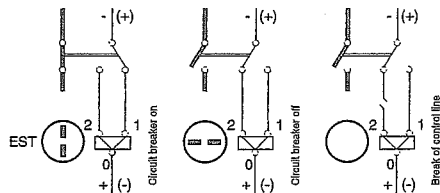
sheet 2

## Connecting diagrams: Cross

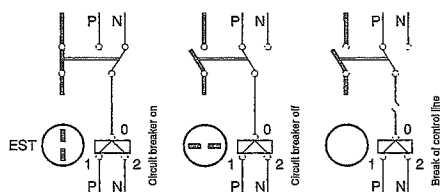
DC voltage / single-wire control



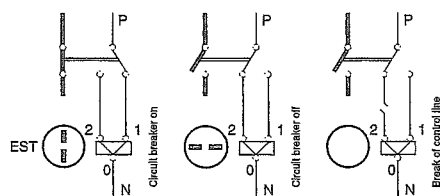
DC voltage / two-wire control -  
minus line (or plus line) connected



AC voltage / single-wire control

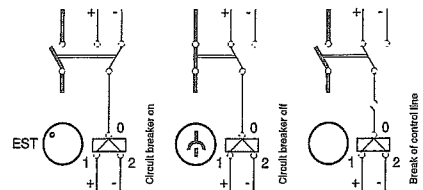


AC voltage / two-wire control

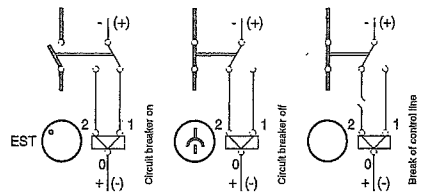


## Connecting diagrams: Earth, Switching truck, Circle

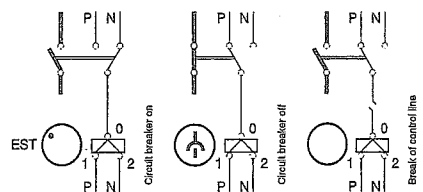
DC voltage / single-wire control



DC voltage / two-wire control -  
minus line (or plus line) connected



AC voltage / single-wire control



AC voltage / two-wire control

