

## CES-AZ-ALS-04B-113090 (Order no. 113090)

### Evaluation unit CES-AZ-ALS-04B (for 4 read heads)

- ▶ 4 read heads can be connected
- ▶ 2 safety outputs (relay contacts with 2 internally connected NO contacts per output)
- ▶ Start button and feedback loop can be connected
- ▶ Unicode
- ▶ Plug-in connection terminals
- ▶ Category 4 / PL e according to EN ISO 13849-1
- ▶ n-switching



### Unicode evaluation

Each actuator is highly coded (unicode). The evaluation unit detects only actuators that have been taught-in. Additional actuators can be taught-in.

Only the last actuator taught-in is detected.

New actuators are taught-in by fitting a jumper.

### Guard lock monitoring

Evaluation units in the series CES-AZ make it possible to use read heads with integrated guard locking for the protection of personnel during overtraveling machine movements. You will find suitable read heads in the accessories

### Category according to EN ISO 13849-1

Due to two redundant safety paths (relay contacts) with 2 internal, monitored normally open contacts per safety path, suitable for:

- ▶ Category 4 / PL e according to EN ISO 13849-1

Each safety path is independently safe.

### LED indicator

STATE Status LED

DIA Diagnostics LED

OUT Safety output status

### Additional connections

TST Input for self-test

O1 ... O4 Monitoring outputs (semiconductor)

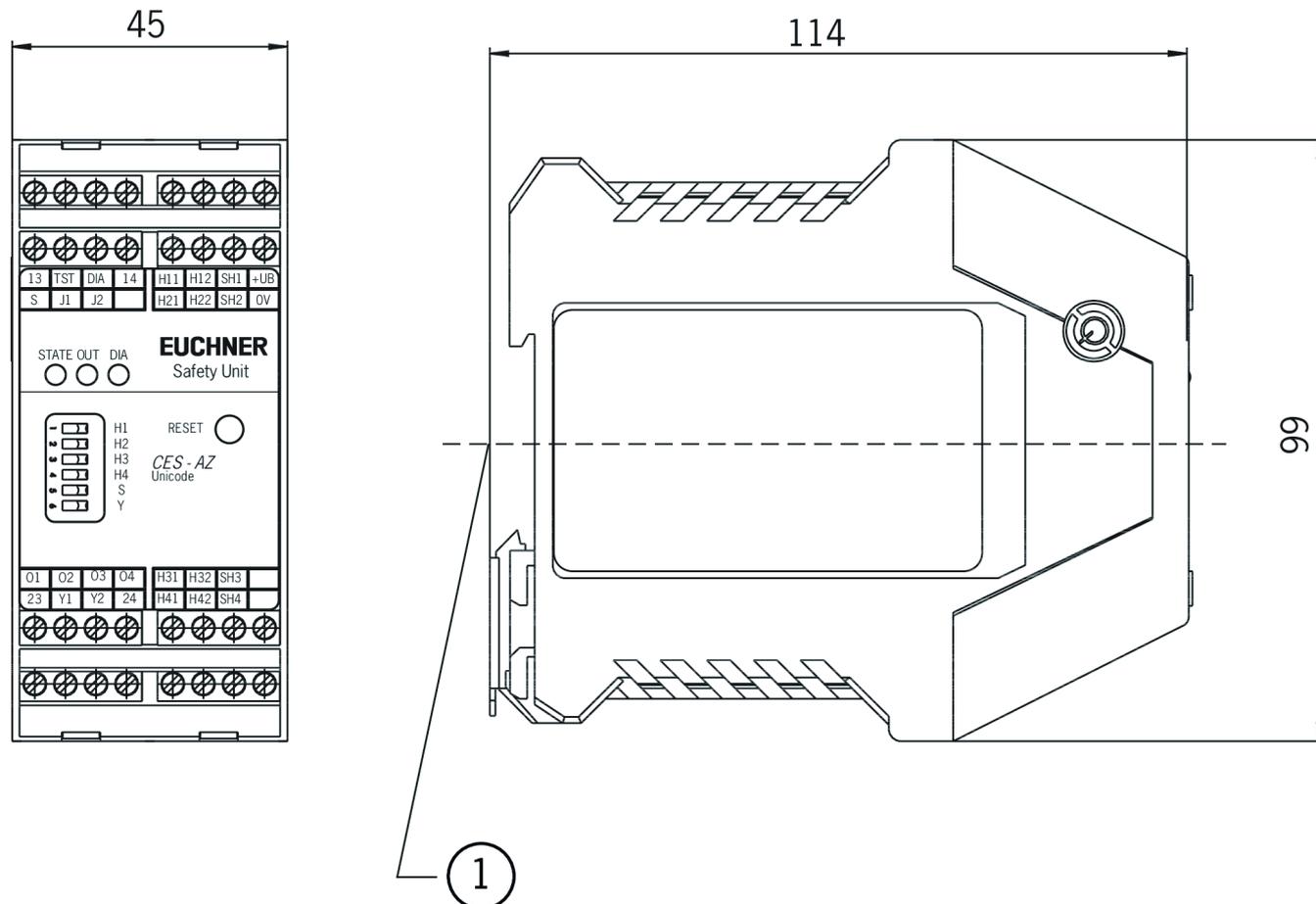
DIA Diagnostic output

Y1, Y2 Feedback loop

S Start button connection (monitoring of the falling edge)

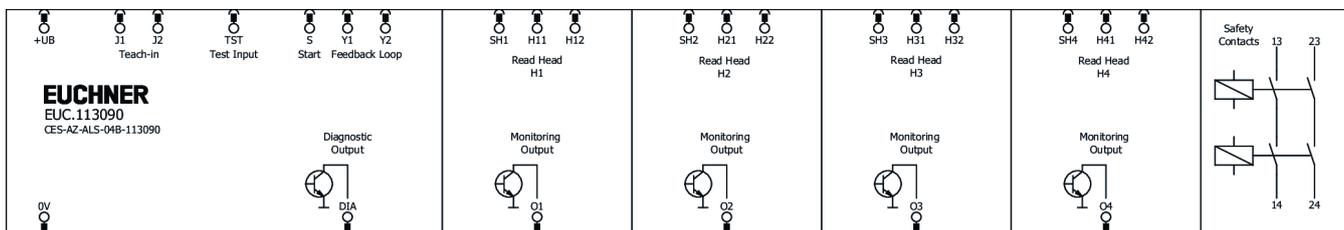
**Important:** The plug-in connection terminals are not included and must be ordered separately.

## Dimensional drawings



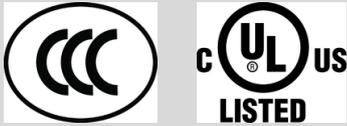
1 Suitable for 35 mm mounting rail according to EN 60715

## Connection examples



## Technical data

### Approvals



### Workspace

Repeat accuracy R

according to EN 60947-5-2 10 %

### Operating and display elements

LED display

Status LED

Safety contacts status

Diagnostics LED

### Electrical connection values

Fuse

external (operating voltage  $U_B$ ) 0.25 ... 8 A

Connection cross section

Screw terminals 0.25 ... 2.5 mm<sup>2</sup>

Operating voltage DC

$U_B$  21 ... 24 ... 27 V DC regulated, residual ripple < 5%

EMC protection requirements

Acc. to EN IEC 60947-5-3

Current consumption

(with relay energized) 150 mA

(without taking into account the load currents at the monitoring outputs)

Current via feedback loop

5 ... 8 ... 10 mA

Degree of contamination (external, according to EN 60947-1)

2

permissible resistance in feedback loop

max. 600  $\Omega$

**Inputs: start button S, test input TST**