CES-AR-AES-12 (Order no. 098225)

AR evaluation unit CES-AR-AES-12

▸ Central evaluation of an AR switch chain
▸ Status of each individual switch can be recognized
▸ For switch chains of up to 12 devices
▸ Four individual safe relay contacts
▸ Category 4/PLe according to EN ISO 13849-1

Important: A switch chain comprising the following safety switches can be connected to the AR evaluation unit:

CES-AR-C01 / CES-AR-C02 / CES AR-C04 / ESL-AR / CET- AR / CTP-AR

Function

The AR evaluation unit is used to evaluate the individual safety switches in a CES-AR-… switch chain and the safe interruption of a safety circuit.

The unit has two inputs for connection of a CES-AR… switch chain. The safety contacts are switched as a function of the input signals. Downstream parts of the safety circuit can be monitored using a feedback loop.

The switching states of the connected safety switches can be signaled by means of monitoring outputs.

If the actuator on one of the safety switches in the switch chain is moved out of the actuating range, the AR evaluation unit opens its contacts and the corresponding monitoring output is reset.

The system is designed so that failures will not result in the loss of the safety function. The occurrence of failures is detected by cyclic self-monitoring at the latest at the next demand to close the safety contacts. The system can be started either manually using a start button or automatically.

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
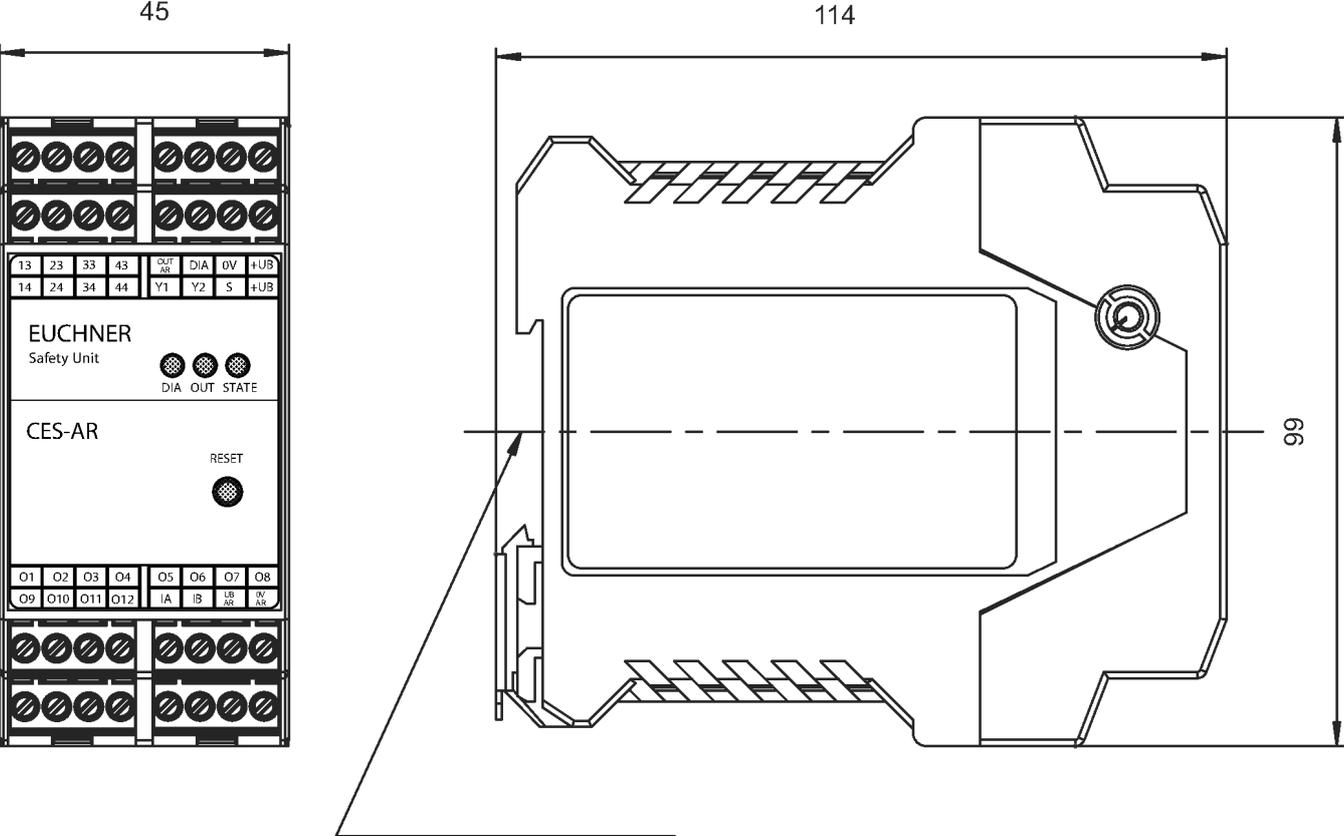Each safety path is independently safe.

LED indicator

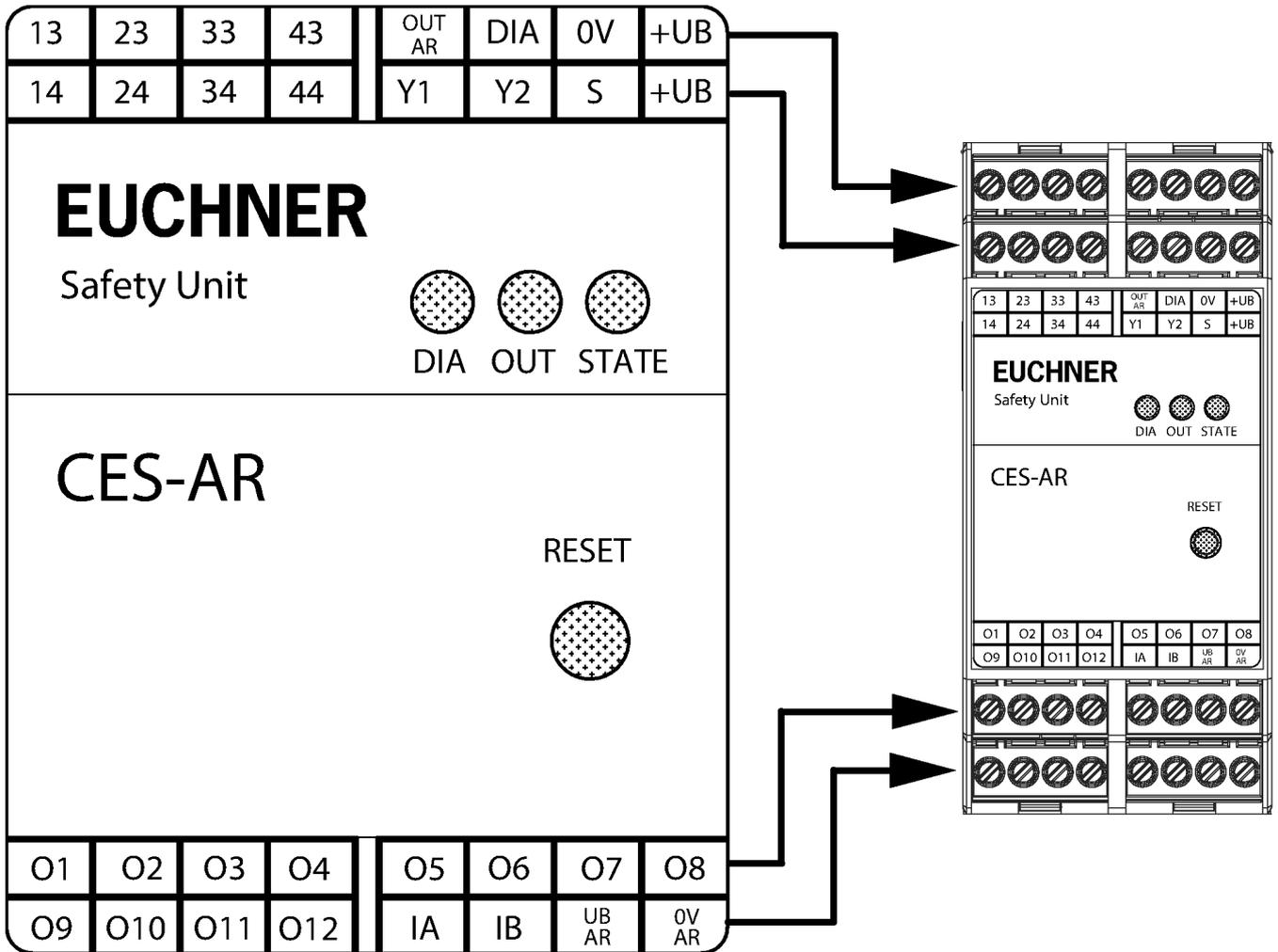STATE Status LED
DIA   Diagnostics LED

OUT　　Safe state/self–test

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

Dimensional drawings

Connection examples

13	23	33	43	OUT AR	DIA	0V	+UB
14	24	34	44	Y1	Y2	S	+UB

EUCHNER

Safety Unit

DIA OUT STATE

CES-AR

RESET

O1	O2	O3	O4	O5	O6	O7	O8
O9	O10	O11	O12	IA	IB	UB AR	0V AR

Connection examples

UB UB CES UB CES 0V IA IB OUT AR DIA Y1 Y2 S CES

Power Out Inputs

Summary of monitoring signals

Fault signal

Feedback loop Start

Power supply

K1

K2

Monitoring outputs

CES Evaluation Unit for CES-AR

13 23 33 43

14 24 34 44

0V O1 O2 O3 O4 O5 O6 O7 O8 O9 O10 O11 O12