

EU-3

CE Approved:
MD, EMC, LVD

Category 2/3, EN 954-1

(Estimated category by 2-channel operation)

- Inexpensive
- Forced contacts
- Doubling of output contacts
- Internal redundancy
- 22,5 mm slimline relay

Function:

By connecting the extension module EU-3 to a safety module, an increased number of contacts and an increased contact load will be achieved. EU-3 is an inexpensive extension module in a 22,5 mm slimline house.

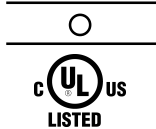
Technical facilities regarding safety requirements:

- Forced contacts
- Doubling of output contacts
- Internal redundancy
- Monitoring via X1-X2

User's advantages:

- 3 NO safety outputs
- 1 NC signal output
- Contact load: AC 6 A / DC 6 A
- AC / DC supply results in protection against wrong polarization
- Can operate with all NST and HR relays
- Connection of external relays
- LED indication of output status
- DIN rail mounting
- Design is based on the European Standard, EN 60204-1
- Complies with MD, EMC, LVD (98/37/EEC, 89/336 og 93/68)

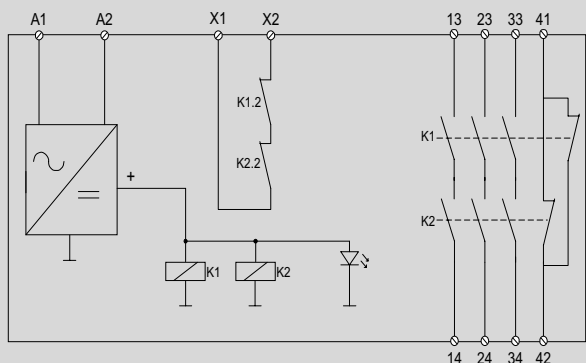
Approvals:



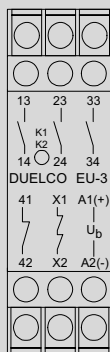
○ Awaiting approval

➔ **Technical specifications and physical dimensions, see page 44-45**

Block diagram, EU-3:



Front layout:



Terminal description:

- A1(+):** Power supply (+)
- A2(-):** Power supply (-)
- X1:** Feedback monitoring contact
- X2:** Feedback monitoring contact
- 13-14:** NO safety output
- 23-24:** NO safety output
- 33-34:** NO safety output
- 41-42:** NC signal output

Order information

Article name	Article no.	
EU-3, 24 V AC/DC	42232248	Note: EU-3L is in a low housing, D=98,8 mm
EU-3L, 24 V AC/DC	42232243	

Operation description and connection examples

EU-3 is a simple extension module with 3 NO safety contacts and 1 NC signal contact. EU-3 is working by activating the internal relays K1 and K2. This is done by applying a voltage across the terminals A1(+) and A2(-). These are supply inputs.

When the power is applied, the contacts 13-14, 23-24 and 33-34 will close, the LED K1 illuminates and the contact 41-42 will open. When the supply voltage is removed, the contacts 13-14, 23-24 and 33-34 will open, the LED K1 turns off and the contact 41-42 will close.

The terminals X1 and X2 are monitoring terminals, and are used in connection to the reset function of the controlling relay, where they

are monitored via the reset function of the controlling relay. If an error in the internal relays of EU-3 should occur, these contacts will be disconnected, and a reactivation of the controlling relay will not be possible.

EU-3 must be connected to a safety control relay, as the extension block does not perform any independent safety function.

Extension contact blocks can increase the number of contacts on the safety relay or increase the contact load.

