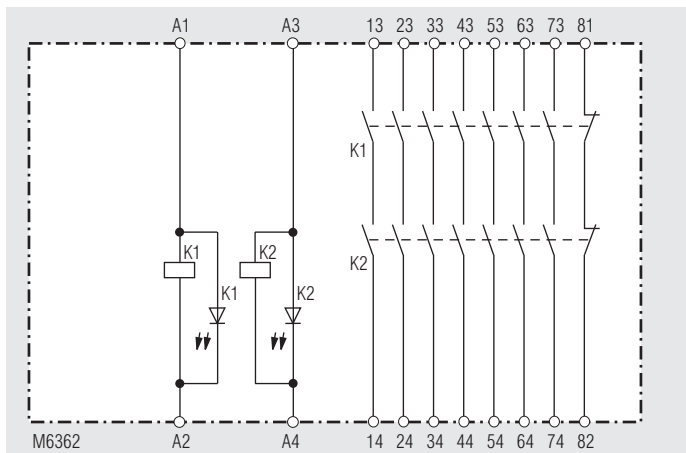


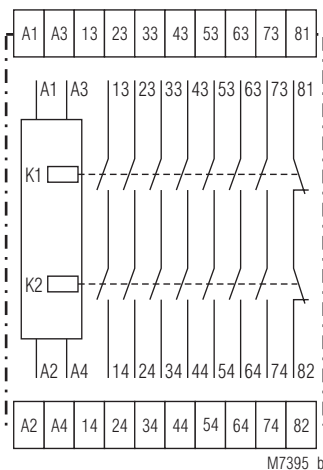


- According to EC Directive for machines 98/37/EG
- According to IEC/EN 60204-1
- Safety category 4 according to EN 954-1
- Redundant and positively-driven contacts
- Output: 7 NO contacts, 1 NC contact for feed back circuit
- 1- or 2-channel connection
- LED displays for channels 1,2
- Removable terminal strips
- Width 100 mm

Block diagram



Circuit diagram



Approvals and marking



* pending

Applications

Contact multiplication of emergency-stop modules and safety door monitors.

Indication

LED K1: on when supply on relay K1
LED K2: on when supply on relay K2

Notes

The safety category to be realized according to EN 954-1 is depending on the category of the connected control unit and cannot be higher for the extension module. The redundant design of the DOLD safety modules ensures that all safety modules switch off reliably if a fault occurs in one of the devices.

Technical data

Input

Nominal voltage U_N : AC 110, 230 V; AC/DC 24 V
For extension modules where the nominal voltage is the mains voltage EN 60204 part 9.1.1 must be fulfilled

Voltage range:
at 10% residual ripple: AC 0,8 ... 1,1 U_N
at 48% residual ripple: DC 0,9 ... 1,2 U_N
DC 0,8 ... 1,1 U_N

Nominal consumption: 5,5 VA; 2,8 W

Nominal frequency: 50 / 60 Hz

Control current: approx. 12 mA for K1 and K2 at AC 230 V
approx. 55 mA for K1 and K2 at DC 24 V

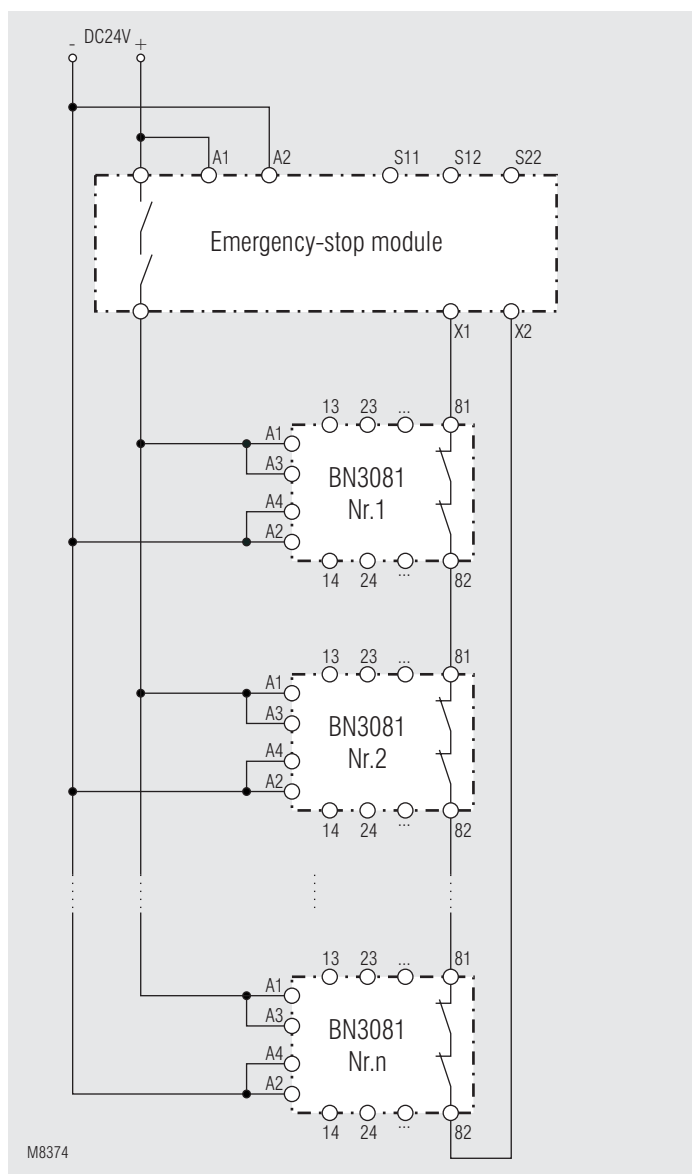
Output

Contacts

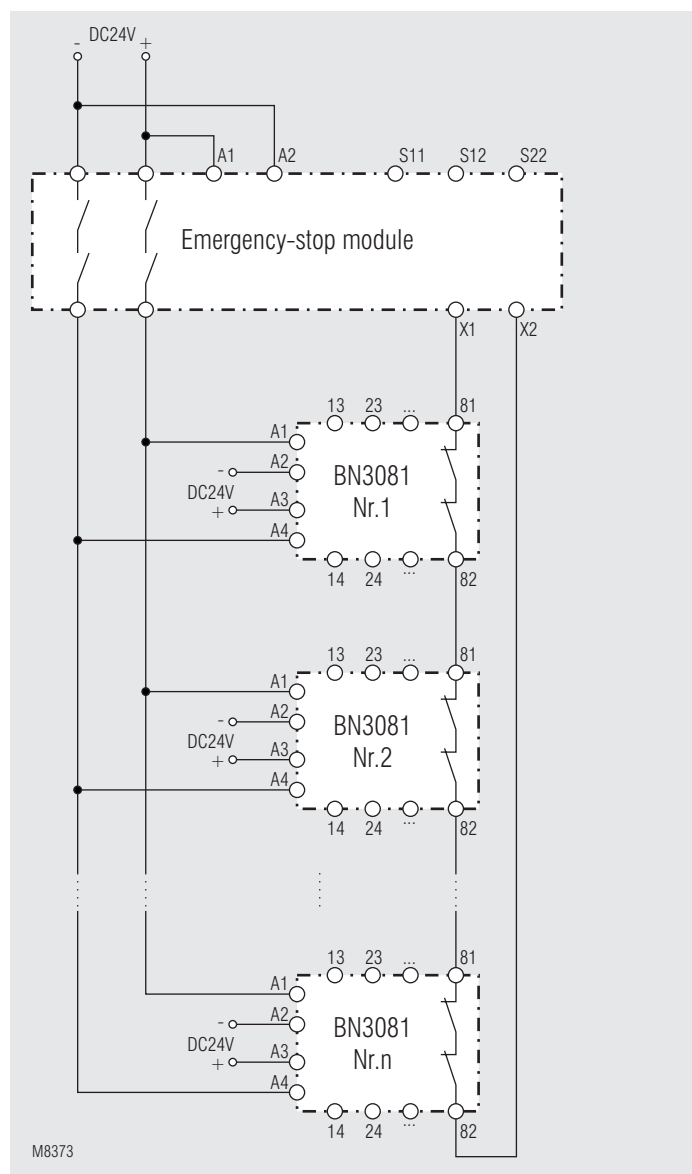
BN 3081.63: 7 NO contacts, 1 NC contact for feed back circuit
The NO contacts are safety contacts.
ATTENTION! The NC contacts 81-82 can only be used for monitoring.

Response / release time of

K1 and K2: 35 ms / 35 ms
Contact type: Relay, positively-driven
Nominal output voltage: AC 400 V / DC 230 V
Thermal current I_{th} : see Limit curve for arc-free operation (max. 10 A in one contact path)



Contact multiplication with several extension modules 1-channel



Contact multiplication with several extension modules 2-channel with cross fault monitoring