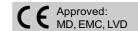


NST-3



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:

Small and vigorous emergency stop relay for monitoring of emergency stop and other safety arrangements. Furthermore the relay is useful as an inexpensive extension module, when additional output contacts are needed.

Technical facilities regarding safety requirements:

- Forced contacts
- Doubling of output contacts
- Internal redundancy

Approvals:



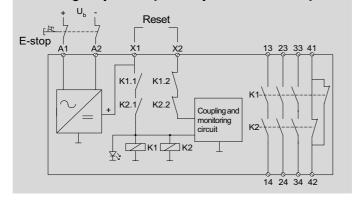
Approved

UL-Rating: Pilot Duty, B300; R300

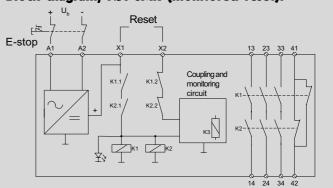
User's advantages:

- 3 NO safety outputs
- 1 NC signal output
- Contact load: AC 6 A / DC 6 A
- Various supply voltages; 12VDC, 24VAC/DC og 48VDC
- Manual / automatic reset
- AC / DC supply results in protection against reverse polarity
- · Connection of external relays
- LED indication of output status
- 22,5 mm housing for space-saving DIN rail mounting
- Design is based on the European Standard, EN 60204-1
- Complies with MD, EMC, LVD (98/37/EC, 89/336EEC and 93/68EEC)
- Technical specifications and physical dimensions, see page 44-45

Block diagram, NST-3 (manual, automatic reset):



Block diagram, NST-3MR (monitored reset):



Order information

| Article name | Article no. |
|---------------------|-------------|
| NST-3, 12 V DC | 42041128 |
| NST-3, 48 V DC | 42040248 |
| NST-3,24 V AC/DC | 42041248 |
| NST-3L, 24 V AC/DC | 42041243 |
| NST-3MR, 24 V AC/DC | 42041253 |

Note: NST-3L and NST-3 12 V DC is in a low housing, D=98,8 mm

Front layout: Tern



Terminal description:

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

*Must be used by normal and automatic reset

Operation description and connection examples

The power supply is connected to the terminals A1(+) and A2(-). When not activated, the relay's NO contacts 13-14, 23-24 and 33-34 are open and the NC contact 41-42 is closed. If the emergency stop is deactivated and the monitoring circuit detects, that the relay function is correct, the relay can be started by activating a reset contact between the terminals X1 and X2. This switches on the NO contacts 13-14, 23-24, 33-34 and the NC contact 41-42 will open. The light-emitting diode for the relay illuminates.

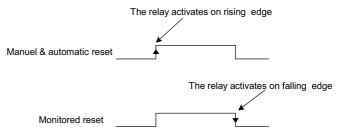
If the emergency stop is activated, the relays K1 and K2 will be deactivated. So the current paths 13-14, 23-24, 33-34 are open and 41-42 is closed.

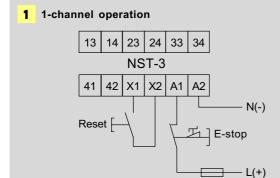
After resetting of the emergency stop the NST-3 will be ready for activation again, provided that the monitoring circuit not detects any defects

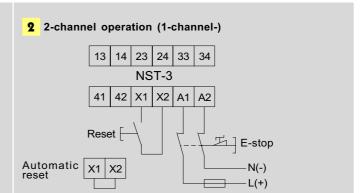
N.B! Automatic reset can be provided by connecting the terminals X1/X2 permanently.

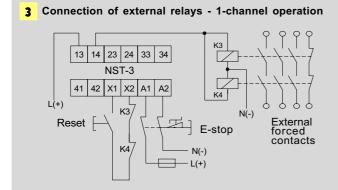
NST-3 is also available in a version (NST-3MR) which operates with monitored reset. This version can not be used for manual or automatic reset.

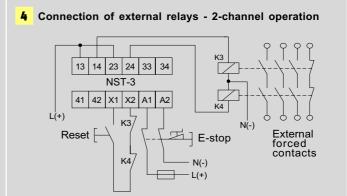
Difference between normal and monitored reset

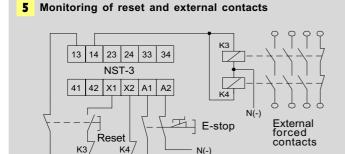












L(+)

