







Two-hand CONTROL relay HR-2007

- Performace level e acc. to EN ISO 13849-1
- Type IIIC (EN 574)
- Status-/fault indication via LEDs
- 2 NO safety outputs
- Short circuit monitoring
- Available with 230VAC and 24V AC/DC supply voltage

What can the new Duelco two-hand relay HR-2007 offer you?

- Simplicity
- Fast and easy installation via user friendly connection examples
- Two-hand control relay for dangerous work processes such as punching or pressing
- Verification of the operation of both control switches within max. 0.5s
- Status-/fault indication LEDs for indication of the status of the internal relays, the outputs and the supply. The LED signalling can reduce trouble shooting time.

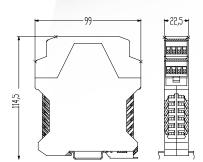
Technical facilities regarding safety requirements:

- Forced contacts
- Transistor output
- 2 NO contacts
- 1 NC contact

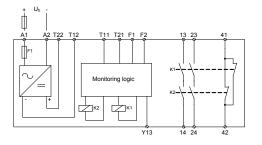
User's advantages:

- Safety category 4 / performance level e acc. EN ISO 13849-1 and IIIC cf. EN 574
- Monitoring of external contacts (F1-F2)
- 2 NO contacts, AC1: 230 V AC / 6A; DC1: 24V / 6A 1 transistor output
 18 VDC
- Voltage versions: 24V AC/DC and 230 VAC
- Design is based on the european standard, EN 60204-1/EN 574
- 22,5 mm slimline housing
- LED indication for power, channel 1 and channel 2
- Complies with MD, EMC, LVD (98/37/EC, 89/336/EEC & 93/68/EEC)





CUL US









Operation description

Operating voltage must be connected to the terminals A1(+) and A2(-). With terminals F1 and F2 short-circuited, the monitoring and control circuit will be activated. In this condition the output contacts 13-14, 23-24 are open and the NC contact 41-42 is closed / non-conductive.

After operation of the two contact sets TA1 and TA2 - each consisting of one set of forced make and break contacts in channel 1 and channel 2, HR-2007 activates. I.e. the current sets will be registered by the monitoring circuit. This makes paths 13-14 and 23-24 are closed while the NC contact 41-42 is open. The LEDs K1 and K2 illuminates. The time period between operation of TA1 and TA2 is max. 500 ms. This period is a requirement of the present standards.

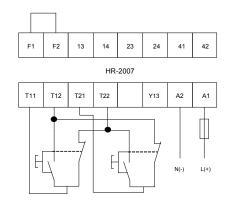
Contact sets TA1 and TA2 ensure that faults such as a welded contact or a short circuit in or between contact restart impossible until the fault is rectified and the two hand relay HR-2007 is back in its dwell position.

Technical data HR-2007

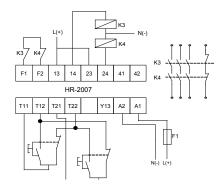
| 24V AC/DC, 230V AC |
|--|
| 24V AO/DO, 230V AO |
| 0,851,1 U _B |
| 50 60 Hz |
| 2 VA |
| |
| |
| 2 x 1,5 mm ² |
| 2 x 1,5 mm ² |
| 60/75°C copper wire only |
| 4 x 0,15 km |
| 150 nF/km |
| +55° C |
| |
| 2 NO / 1 NC |
| Positive guided relay |
| AgSnO ₂ or comparable material |
| 250V AC, 24V DC |
| 6 A AC, 6 A DC |
| 1500 VA (ohms load) |
| 10 ⁷ activations |
| 10 ⁵ activations (DC 24V/2A) |
| Pollution grade 2: |
| Basis insulation: Over voltage category 3 |
| Protective separation: Over voltage category 2 |
| 0,5 s |
| < 30 ms |
| AC 15: 230 V / 6 A ; DC 13: 24 V / 1,5 A |
| |
| > 18 VDC |
| Rext >= 2,4 kOhm |
| |
| Polyamid PA 6.6 |
| 22,5 x 114,5 x 99 mm |
| Click-fastening for DIN-Rail |
| Alternating climate, 95% 0-50°C |
| 0,4 Nm |
| 180 g |
| In dry areas |
| -25 - +55° C |
| IP 20 (DIN VDE 0470); IP 40 (DIN VDE 0470) |
| 5g, 33 Hz (VDE 0160) |
| |
| EN ISO 13849-1 |
| e / 4 |
| |
| 36.45 high |
| 36,45 high 99% high |
| |

Connection examples:

HR-2007, general application



HR-2007 connected to external contactors



Order information:

| Description | Article no. |
|--------------------|-------------|
| HR-2007F 24V AC/DC | 42080030 |
| HR-2007F 230V AC | 42080031 |

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