







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.

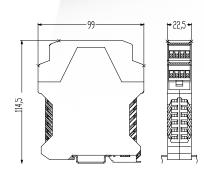
Technical facilities regarding safety requirements:

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

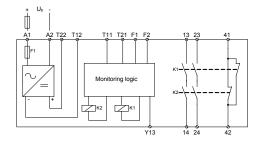
User's advantages:

- 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
- 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.

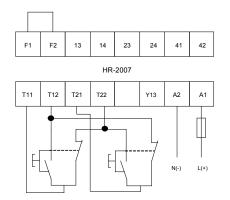
Contact sets TA1 and TA2 ensure that faults such as a welded contact or a short circuit in or between contact restart impossible until the fault is rectified and the two hand relay HR-2007 is back in its dwell position.

Technical data HR-2007

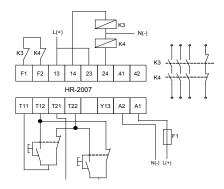
24V AC/DC, 230V AC
24V AO/DO, 230V AO
0,851,1 U _B
50 60 Hz
2 VA
2 x 1,5 mm ²
2 x 1,5 mm ²
60/75°C copper wire only
4 x 0,15 km
150 nF/km
+55° C
2 NO / 1 NC
Positive guided relay
AgSnO ₂ or comparable material
250V AC, 24V DC
6 A AC, 6 A DC
1500 VA (ohms load)
10 ⁷ activations
10 ⁵ activations (DC 24V/2A)
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

Duelco A/S - Aalborg Duelco A/S - Sønderborg Tel. +45 7010 1007 Systemvej 8 Mommarkvej 5 Fax: +45 7010 1008 DK-9200 Aalborg SV DK-6400 Sønderborg www.duelco-safety.com info@duelco.dk