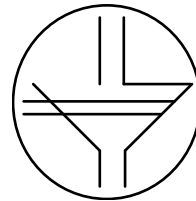


List of type approved relays with forcibly guided contacts



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Manufacturer	Approved versions: Energizing quantity	Contacts				Standards as basis for the approval	Test reports Date <i>Last test after modifications or supplements</i>
		Type	Number of output circuits	Contact assembly	CAC		
E. Dold & Söhne KG Bregstraße 18 D-78120 Furtwangen							
OA 5611	DC coils between 6 V and 110 V	4	Crown contacts 2NO/2NC, 3NO/1NC	A	AgNi10 + 0,2 till 5 µm Au AgCdO + 0,2 µm Au	[R1] -- [R8] [Z1] [Z6] -- [Z8]	945/EL 325/96 dated 21.08.1996 968/EZ 117.00/01 dated 2001-05-15 968/EZ 118.00/01 dated 2001-05-17 968/EZ 121.00/01 dated 2001-08-16
OA 5612	DC coils between 6 V and 110 V	6	Crown contacts 4NO/2NC, 3NO/3NC, 2NO/4NC, 5NO/1NC	A	AgNi10 + 0,2 till 5 µm Au AgCdO + 0,2 µm Au	[R1] -- [R8] [Z1]	945/EZ 101/98 dated 1998-02-16 968/EZ 122.00/01 dated 2001-08-16
OA 5621 OA 5622	DC coils between 6 V and 110 V	4	Single contacts OA 5621: 3NO/1NC, 2NO/2NC OA 5622: 4NO/2NC, 3NO/3NC, 2NO/4NC, 5NO/1NC	A A	AgSn O ₂ + 0,2 µm Au AgNi10 + 0,2 µm Au AgNi10 + 5 µm Au	[R1] -- [R8] [Z1]	968/EZ 136.00/02 dated 2002-11-22 968/EZ 136.01/03 dated 2003-10-07

Manufacturer	Approved versions: Energizing quantity	Contacts				Standards as basis for the approval	Test reports Date <i>Last test after modifications or supplements</i>
		Number of output circuits	Contact assembly	CAC	Contact material		
E. Dold & Söhne KG Bregstraße 18 D-78120 Furtwangen							
OA 5667	DC coils between 6 V and 110 V	2	Single contacts 12: 2CO 16: 1NO/1NC	B A	AgCdO + 0,2 µm Au AgNi10 + 0,2 till 5 µm Au	[R1] -- [R8] [Z1]	968/EL 112.00/00 dated 2000-05-02 968/EL 112.01/03 dated 2003-01-08
OA/OW 5670	DC coils between 6 V and 110 V	4	Single contacts 2NO/2NC, 3NO/1NC	A	AgCdO + 0,2 µm Au AgNi10 + 0,2 till 5 µm Au	[R1] -- [R8] [Z1]	968/EL 125.00/01 dated 2001-02-08 968/EL 125.01/04 dated 2004-11-10

Legend:

CAC: Contact application class according to EN 50205 clauses 3.2 and 3.3:

CAC A: Contact set with forcibly guided (linked) contacts, which are all forcibly guided (linked) to each other

CAC B: Contact set with forcibly guided (linked) contacts and additional contacts, which are not forcibly guided (linked) as well as contact set with change-over contacts

NO: normally open, make contact

NC: normally closed, break contact

CO: change-over contact

Standards, which are actually applied at the type approval of relays with forcibly guided contacts depending on the intended application

General requirements for relays:

- | | |
|---|--|
| [R1] EN 61810-1/2004
Electromechanical non-specified all-or-nothing relays
Part 1: General requirements | [R6] DIN EN 50178/04.98
Electronic equipment for the use in power installations |
| [R2] EN 61810-2/2005
Electromechanical elementary relays. Part 2: Reliability | [R7] EN 60664-1/2003
Insulation co-ordination for equipment within low-voltage systems
Part 1: Principles, requirements and tests |
| [R3] EN 61810-5/1999
Electromechanical non-specified time all-or-nothing relays
Part 5: Insulation co-ordination | [R8] IEC 60068 Standards, different parts |
| [R4] DIN EN 60255-23/03.97
Electrical relays, Part 23: Contact performance | |
| [R5] prEN 61810-4/2005
Electromechanical all-or-nothing relays
Part 7: Test and measurement procedures | |

Additional requirements for relays with forcibly guided contacts:

General use circuits for safety purposes

[Z1] EN 50205/2005

Relays with forcibly guided contacts

[Z2] ZH 1/457 Ausgabe 02.78, Abschnitt 3.4.1 f

Sicherheitsregeln für Steuerungen an kraftbetriebenen Pressen der Metallbearbeitung

Application at electric signaling systems for railroads

[Z6] prDIN VDE 0831/06.2005

Electric signaling systems for railroads

[Z7] UIC-Codex 736r, 4. Edition 06.2004

Signal-relays

[Z8] Deutsche Bundesbahn, 53 100 Entwurf, Ausgabe 01.08.1982

Allgemeine Richtlinien für signaltechnisch sichere Schaltungen und Einrichtungen der Relais-technik