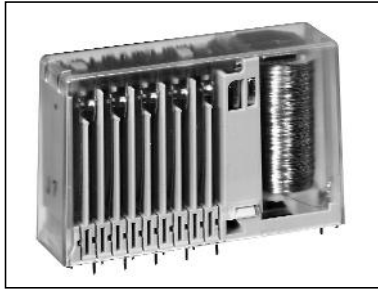


Safety Relay K-RDM



Technical Data mechanical

General

- 8 or 10 contacts
- Forced guided contactset
- According to EN 50205, Application type A
- Ambient temperature – 15 ... + 70 °C
- Soldering heat resistance 260 °C/5s
- RoHS compliance

Connections

- Soldering pins for PCB, pre-soldered with Sn100

Drive

- Direct current, neutral monostable

Approvals

- cULus • TÜV

Standards

- EN 50205 • IEC 61810-1 • UL 508

Dimensions L x W x H (in mm)	70 x 20,5 x 44
Shock resistance NO-contact/NC-contact	10/10 g, 16 ms Half sinus
Vibration resistance NO-contact/NC-contact	5/5 g, 5 – 55 Hz
Operating time NC-contact, contact opens	typical 13 ms
Operating time NO-contact, contact closes	typical 15 ms
Releasing time NO-contact, contact opens	typical 5 ms
Releasing time NC-contact, contact closes	typical 7 ms
Mechanical service life (without load)	>10 ⁷ cycles
Weight	85 g

Technical Data electrical

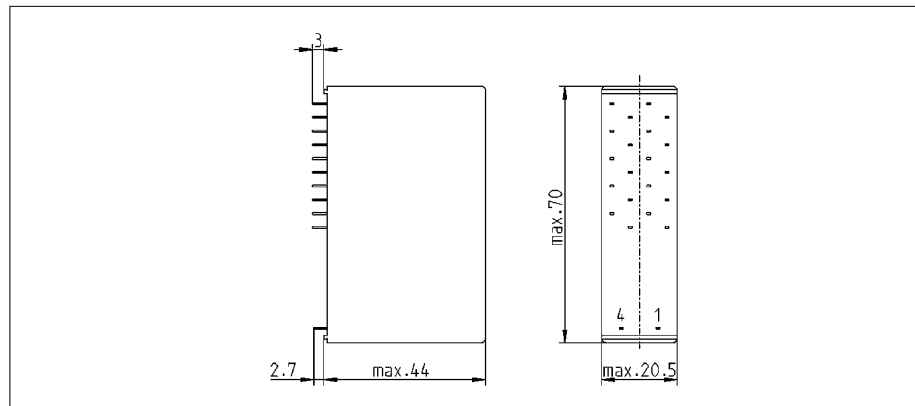
Max. switching capacity	AC 2.000 VA, DC *W
Max. switching voltage	AC 230/240 V, DC *V
Max. switching current	8 A
Constant current I _{th2}	8 A
Constant current I _{th2} at the same time over 2 contacts	5,6 A
Constant current I _{th2} at the same time over 3 contacts	4,6 A
Constant current I _{th2} at the same time over 4 contacts	4 A
Constant current I _{th2} at the same time over 5 contacts	3,5 A
Constant current I _{th2} at the same time over 6 contacts	3,2 A
Constant current I _{th2} at the same time over 7 contacts	3,0 A
Constant current I _{th2} at the same time over 8 contacts	2,8 A
Switching capacity NO/NC-contact AC-15 230/240 V	I _e = 4/1,5 A
DC-13 24 V	I _e = 1,2/1,2 A
Electrical service life (with nominal load)	>10 ⁵ cycles
Short-circuit capacity 1.000 A/AC 230 V	10 A gL/gG-fuse
* see DC-switching capacity	

Insulation

Over voltage category (Ü) III	B-I = Basic insulation
Degree of pollution (V) 2	V-I = Reinforced (double) insulation
Insulating material group II	

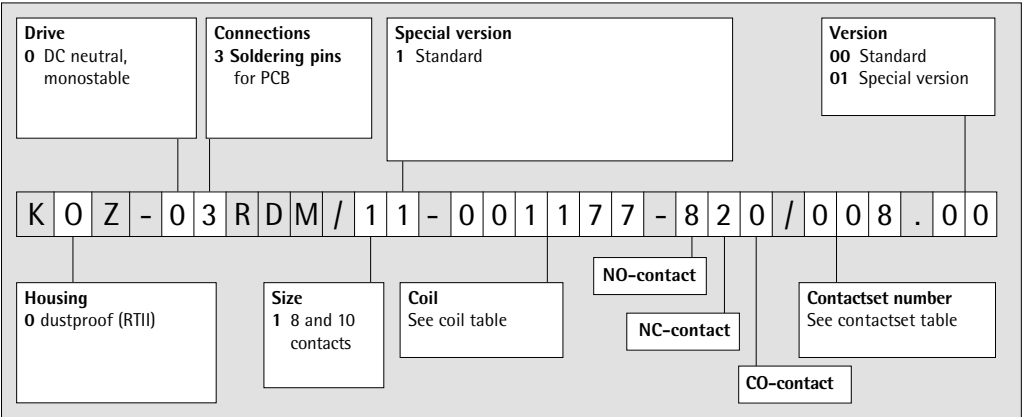
Insulation between	Nominal voltage network system		Air -/ creeping distance	Test voltage 50Hz/60s
	AC 120/240 V	AC 230/400 V		
Contact – Contact	V-I	B-I	> 3 mm	AC 2.500 V
Contactset – Drive	V-I	B-I	> 3 mm	AC 2.500 V

Dimensions



Safety Relay K-RDM

Type key



Contactset table

Number of contacts NO/NC/CO-contacts	AgSnO ₂ +0,2 µm Au	AgSnO ₂ +2 µm Au	Contact material
260	009	010	Contactset number
440	001	002	
460	003	004	
530	014	013	
620	011	012	
730	005	006	
820	007	008	

Coil table

All values at ambient temperature $T_u = 20\text{ °C}$

Coil-No.	Resistance R/Ω	Resistance- tolerance $\pm$	U_1/V	U_2/V	U_3/V	$U_{rück}/V$	Printing U_{nom}/V
1028	30	5%	4,1	10,3	10	0,3	6
1321	140	6%	9,4	22,2	23	0,6	12
1177	335	8%	15,1	34,1	37	0,9	24
1412	1.800	7%	34,3	79,4	85	2,1	48
1468	2.500	7%	39,5	93,5	98	2,5	60
1506	11.500	9%	89,3	199,2	214	5,4	120
1103	42.600	12%	176,2	379,1	404	10,2	230

U_1 : Minimum operating voltage with consideration of coil self heating
 U_2 : Thermal restricted maximum coil voltage
 U_3 : Maximum admissible coil voltage to realize a contact gap of > 0.5 mm also at a contact fault
 $U_{rück}$: Releasing voltage

Further coils are possible and available

Running type

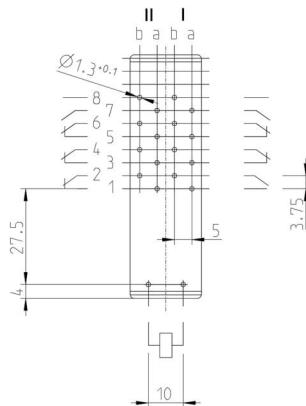
Article-No.	Type key	Printing U_{nom}	U_1/V	U_2/V	U_3/V	$U_{rück}/V$
RDM-0853	KOZ-03RDM/11-001177-730/006.00	DC 24 V	15,1	34,1	37	0,9
RDM-0854	KOZ-03RDM/11-001177-820/008.00	DC 24 V	15,1	34,1	37	0,9
RDM-0885	KOZ-03RDM/11-001177-530/013.00	DC 24 V	15,1	34,1	37	0,9
RDM-0887	KOZ-03RDM/11-001177-260/010.00	DC 24 V	15,1	34,1	37	0,9

Safety Relay K-RDM

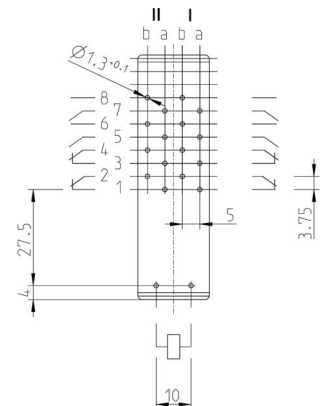
Connection grid
Few on soldering side

8 contacts

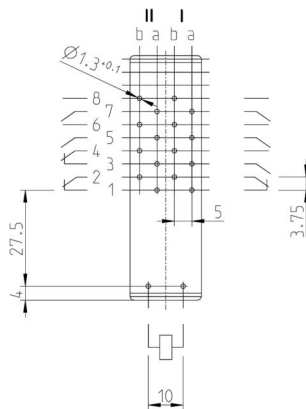
2 NO-contacts / 6 NC-contacts (260)



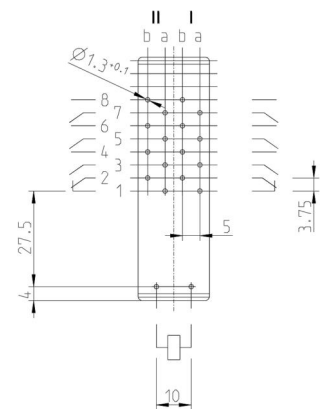
4 NO-contacts / 4 NC-contacts (440)



5 NO-contacts / 3 NC-contacts (530)



6 NO-contacts / 2 NC-contacts (620)

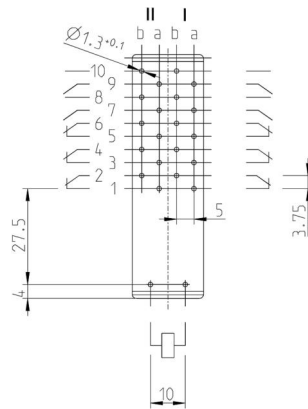


Safety Relay K-RDM

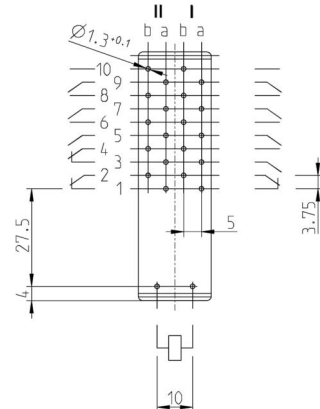
Connection grid
Few on soldering side

10 contacts

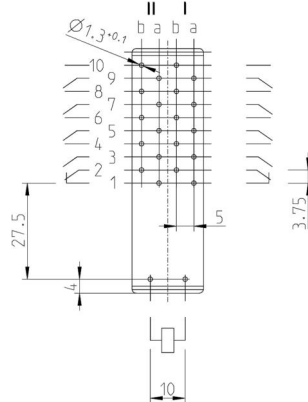
4 NO-contacts / 6 NC-contacts (460)



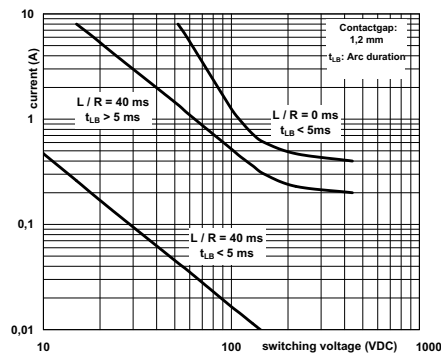
7 NO-contacts / 3 NC-contacts (730)



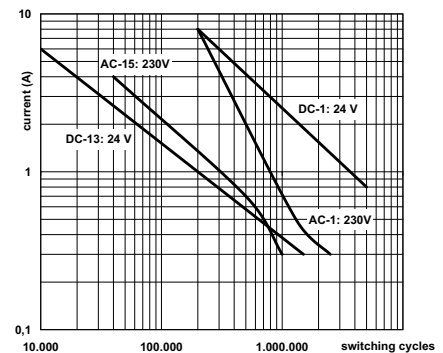
8 NO-contacts / 2 NC-contacts (820)



Diagrams



DC-switching capacity



Electrical service life