



PIT-RADWAR S.A.
WROCLAW DIVISION

50-425 Wrocław, ul. Krakowska 64, Poland
 tel. (+48) 71/342-65-54, fax (+48) 71/342-58-59
 e-mail: sales@dolam.pl
 www.dolam.pl

Reed relays type K-9/Nx1

This product is in accordance with RoHs

**Reed relays with 1 to 4 form A contacts
 (normally open) for PCB's.**

PARAMETERS	Unit	TYPE
		K-9/Nx1

1. CONTACT PARAMETERS

Switching power	max	W, VA	10
Switching voltage	max	V _{DC}	200
Switching current	max	A	0,5
Contact resistance	max	mA	200
Life expectancy at 20V _{DC} , 500mA		operations	3x10 ⁶

2. RELAY PARAMETERS

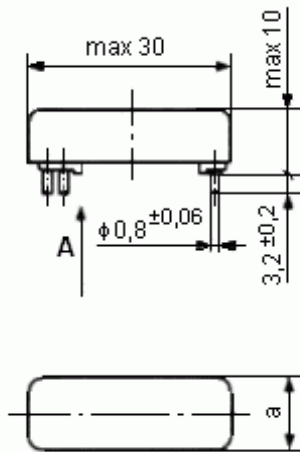
Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time incl. bounce time for:			
K-9 / 1 x 1			1,2
K-9 / 2 x 1	max	ms	1,5
K-9 / 3 x 1			1,8
K-9 / 4 x 1			2,1
Release time	max	ms	0,3
Test voltage.:			
contact			300
contact/ contact			500
contact/ coil	min	V _{AC}	500
contact/ shield			500
coil/ shield			500
Insulation resistance	min	A	10 ⁹
Admissible ambient temperature			-40°C ÷ 70°C

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

Symbol of relay	Contact arrangement	Index No	Coil resistance R _N [A] t = 20°C	Supply voltage, t = 20°C		
				U _N [V]	U _{MIN} [V]	U _{MAX} [V]
K-9/1x1	1 form A	8-4441-831-1	265 ± 15%	6	4,3	12,5
K-9/2x1	2 form A	8-4441-832-1	170 ± 10%		4,3	12,3
K-9/9x1	3 form A	8-4441-833-1	150 ± 10%		4,3	12,1
K-9/4x1	4 form A	8-4441-834-1	85 ± 10%		4,3	10,2
K-9/1x1	1 form A	8-4441-831-2	560 ± 15%	9	5,8	18,3
K-9/2x1	2 form A	8-4441-832-2	345 ± 15%		6,6	17,3
K-9/9x1	3 form A	8-4441-833-2	300 ± 10%		6,3	17,1
K-9/4x1	4 form A	8-4441-834-2	190 ± 10%		6,3	15,2
K-9/1x1	1 form A	8-4441-831-3	1000 ± 15%	12	8,3	24,6
K-9/2x1	2 form A	8-4441-832-3	620 ± 15%		8,7	23,0
K-9/9x1	3 form A	8-4441-833-3	560 ± 15%		8,7	22,7
K-9/4x1	4 form A	8-4441-834-3	290 ± 10%		7,7	18,8
K-9/1x1	1 form A	8-4441-831-4	2800 ± 15%	24	13,2	40,0
K-9/2x1	2 form A	8-4441-832-4	1900 ± 15%		14,4	40,0
K-9/9x1	3 form A	8-4441-833-4	2100 ± 15%		17,1	43,0
K-9/4x1	4 form A	8-4441-834-4	1000 ± 15%		16,3	33,0

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

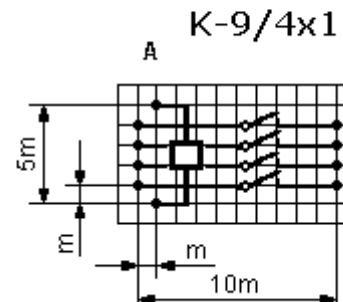
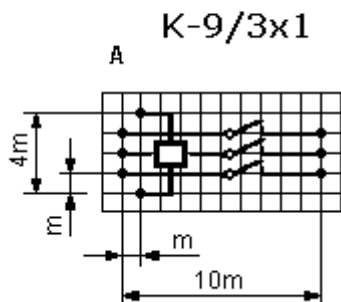
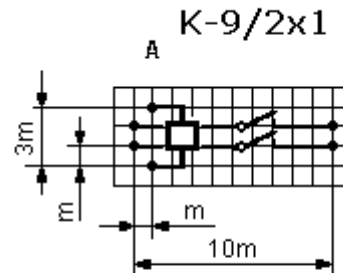
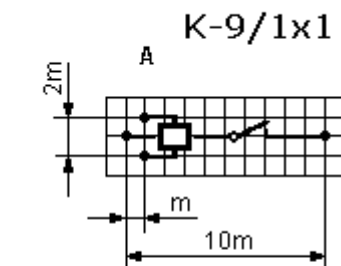
K-9/Nx1



Reed relay	Dimension a (max)
K-9/1x1	10 mm
K-9/2x1	12,5 mm
K-9/3x1	15 mm
K-9/4x1	18 mm

View from the bottom side of relay

$$m = 2,54$$



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

When mounting into printed circuit boards, it is advisable to observe the following points to avoid damage to the relays:

- the time of continuous heating of terminals during soldering should not exceed 5 s,
- the soldering iron should not press on terminals during soldering,
- the relays should not be mounted near sources of strong magnetic fields, e.g. transformers, permanent magnets etc.,
- the relays should operate at nominal supply voltages.



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Reed relays type K-93/Nx1

This product is in accordance with RoHs

**Reed relays with 1 to 4 form A contacts
(normally open) for PCB's.**

PARAMETERS	Unit	TYPE
		K-93/Nx1

1 CONTACT PARAMETERS

Switching power	max	W, VA	10
Switching voltage	max	V _{DC}	200
Switching current	max	A	0,5
Contact resistance	max	mA	200
Life expectancy at 20V _{DC} , 500mA		operations	3x10 ⁶

2. RELAY PARAMETERS

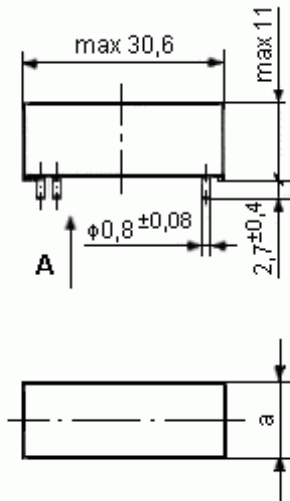
Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time incl. bounce time for :			
K-93 / 1 x 1			1,2
K-93 / 2 x 1	max	ms	1,5
K-93 / 3 x 1			1,8
K-93 / 4 x 1			2,1
Release time	max	ms	0,3
Test voltage:			
contact			300
contact/ contact	min	V _{AC}	500
contact/ coil			500
Insulation resistance	min	A	10 ⁹
Admissible ambient temperature			-40°C ÷ 85°C

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

Symbol of relay	Contact arrangement	Index No	Coil resistance R _N [A] t = 20°C	Supply voltage, t = 20°C		
				U _N [V]	U _{MIN} [V]	U _{MAX} [V]
K-93/1x1	1 form A	8-4441-845-1	265 ± 15%	6	4,3	17,5
K-93/2x1	2 form A	8-4441-846-1	170 ± 10%		4,3	16,2
K-93/3x1	3 form A	8-4441-847-1	150 ± 10%		4,3	15,7
K-93/4x1	4 form A	8-4441-848-1	85 [®] 10%		4,3	12,6
K-93/1x1	1 form A	8-4441-845-2	560 ± 15%	9	5,8	25,4
K-93/2x1	2 form A	8-4441-846-2	345 ± 15%		6,6	22,5
K-93/3x1	3 form A	8-4441-847-2	300 ± 10%		6,3	22,0
K-93/4x1	4 form A	8-4441-848-2	190 ± 10%		6,3	18,3
K-93/1x1	1 form A	8-4441-845-3	1000 ± 15%	12	8,3	33,3
K-93/2x1	2 form A	8-4441-846-3	620 ± 15%		8,7	30,2
K-93/3x1	3 form A	8-4441-847-3	560 ± 15%		8,7	29,4
K-93/4x1	4 form A	8-4441-848-3	290 ± 10%		7,7	23,3
K-93/1x1	1 form A	8-4441-845-4	2800 ± 15%	24	13,2	56,7
K-93/2x1	2 form A	8-4441-846-4	1900 ± 15%		14,4	52,8
K-93/3x1	3 form A	8-4441-847-4	2100 ± 15%		17,1	56,7
K-93/4x1	4 form A	8-4441-848-4	1000 ± 15%		16,3	41,7

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

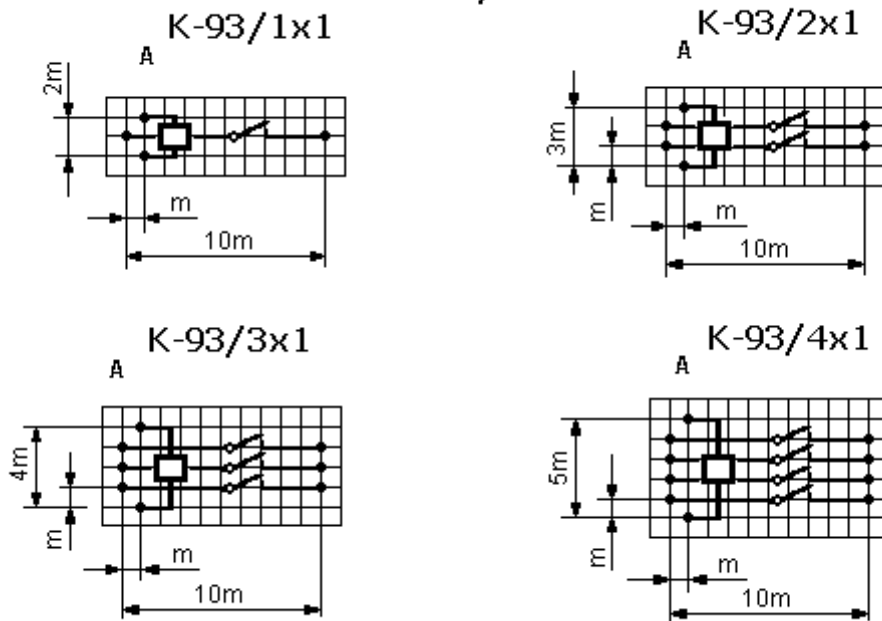
K-93/Nx1



Reed relay	Dimension a (max)
K-93/1x1	11 mm
K-93/2x1	13,5 mm
K-93/3x1	16 mm
K-93/4x1	19,2 mm

View from the bottom side of relay

$$m = 2,54$$



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

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- the relays should operate at nominal supply voltages.



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Reed relays type K-72/Nx1

This product is in accordance with RoHs

**Reed relays with 1 to 4 form A contacts
(normally open) for PCB's.**

PARAMETERS	Unit	TYPE
		K-72/Nx1

1. CONTACT PARAMETERS

Switching power	max	W, VA	20
Switching voltage	max	V_{DC}	110
		V_{AC}	150
Switching current	max	A	0,8
Contact resistance	max	mA	200
Life expectancy at 60V ; 0,35A		operations	2×10^6

2. RELAY PARAMETERS

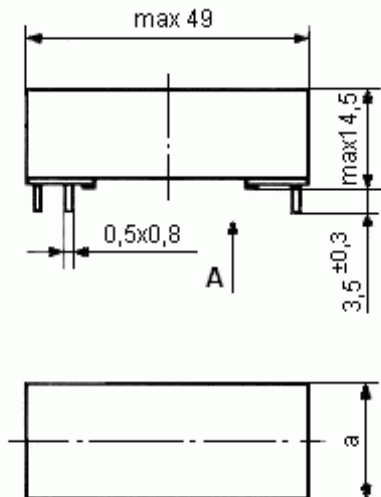
Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time incl. bounce time for: K-72 / 1 x 1 K-72 / 2 x 1 K-72 / 3 x 1 K-72 / 4 x 1	max	ms	1,5
			2,0
			2,5
			3,0
Release time	max	ms	0,5
Test voltage:· contact contact/ contact contact/ coil contact/ shield coil/ shield	min	V_{AC}	350
			500
			500
			500
			500
Insulation resistance	min	A	10^9
Admissible ambient temperature			$-40^{\circ}C \div 70^{\circ}C$

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

Symbol of relay	Contact arrangement	Index No	Coil resistance R_N [A] $t = 20^{\circ}C$	Supply voltage, $t = 20^{\circ}C$		
				U_N [V]	U_{MIN} [V]	U_{MAX} [V]
K-72/1x1	1 form A	8-4441-751-1	$180 \pm 10\%$	6	4,0	18,4
K-72/2x1	2 form A	8-4441-752-1	$150 \pm 10\%$		4,	18,2
K-72/3x1	3 form A	8-4441-753-1	$110 \pm 10\%$		4,4	16,7
K-72/4x1	4 form A	8-4441-754-1	$75 \pm 10\%$		4,0	14,5
K-72/1x1	1 form A	8-4441-751-2	$730 \pm 15\%$	12	7,7	36,0
K-72/2x1	2 form A	8-4441-752-2	$480 \pm 10\%$		8,7	32,6
K-72/3x1	3 form A	8-4441-753-2	$430 \pm 10\%$		8,5	32,9
K-72/4x1	4 form A	8-4441-754-2	$300 \pm 10\%$		8,1	29,0
K-72/1x1	1 form A	8-4441-751-3	$2800 \pm 15\%$	24	16,8	70,5
K-72/2x1	2 form A	8-4441-752-3	$1800 \pm 15\%$		18,5	61,3
K-72/3x1	3 form A	8-4441-753-3	$1500 \pm 10\%$		17,8	59,8
K-72/4x1	4 form A	8-4441-754-3	$1200 \pm 10\%$		16,8	56,4
K-72/1x1	1 form A	8-4441-751-4	$9100 \pm 15\%$	48	28,7	127,1
K-72/2x1	2 form A	8-4441-752-4	$5400 \pm 15\%$		29,2	106,3
K-72/3x1	3 form A	8-4441-753-4	$6100 \pm 15\%$		33,7	120,6
K-72/4x1	4 form A	8-4441-754-4	$3700 \pm 15\%$		29,0	99,1

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

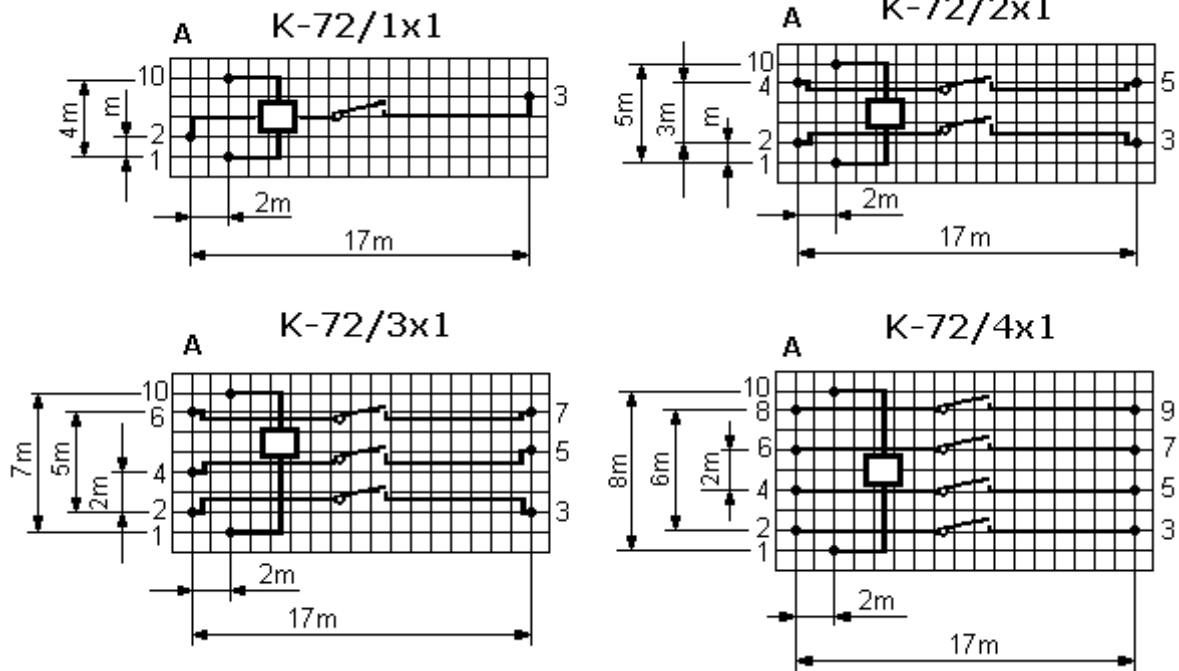
K-72/Nx1



Reed relay	Dimension a (max)
K-72/1x1	17 mm
K-72/2x1	19,5 mm
K-72/3x1	24,5 mm
K-72/4x1	27 mm

View from the bottom side of relay

$m=2,5$



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

When mounting into printed circuit boards, it is advisable to observe the following points to avoid damage to the relays:

- the time of continuous heating of terminals during soldering should not exceed 5 s,
- the soldering iron should not press on terminals during soldering,
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- the relays should operate at nominal supply voltages.



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Reed relays type K-32/Nx1

This product is in accordance with RoHs

**Reed relays with 1 to 4 form A contacts
(normally open) for PCB's.**

PARAMETERS	Unit	TYPE
		K-32/Nx1

1. CONTACT PARAMETERS

Switching power	max	W, VA	60
Switching voltage	max	V_{DC}	200
		V_{AC}	230
Switching current	max	A	3
Contact resistance	max	mA	150
Life expectancy at 60V, 1A		operations	$7,5 \times 10^6$

2. RELAY PARAMETERS

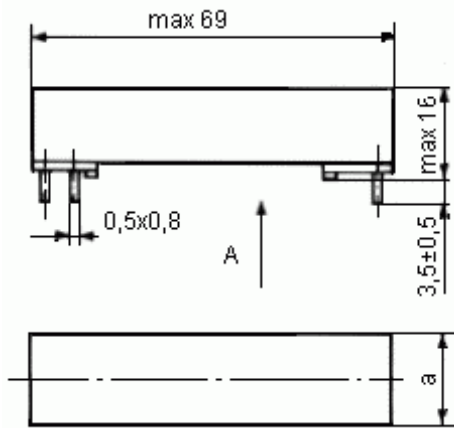
Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time incl. bounce time for: K-32 / 1 x 1 K-32 / 2 x 1 K-32 / 3 x 1 K-32 / 4 x 1	max	ms	2,5
			3,5
			4,5
			5,5
Release time	max	ms	1
Test voltage:. contact contact/ contact contact/ coil contact/ shield coil/ shield	min	V_{AC}	400
			500
			500
			500
			500
Insulation resistance	min	A	10^9
Admissible ambient temperature			$-40^{\circ}C \div 70^{\circ}C$

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

Symbol of relay	Contact arrangement	Index No	Coil resistance R_N [A] $t = 20^{\circ}C$	Supply voltage, $t = 20^{\circ}C$		
				U_N [V]	U_{MIN} [V]	U_{MAX} [V]
K-32/1x1	1 form A	8-4441-659-1	$180 \pm 10\%$	6	3,6	23,0
K-32/2x1	2 form A	8-4441-661-1	$140 \pm 10\%$		3,9	21,5
K-32/3x1	3 form A	8-4441-662-1	$75 \pm 10\%$		4,4	16,8
K-32/4x1	4 form A	8-4441-663-1	$45 \pm 10\%$		4,2	14,0
K-32/1x1	1 form A	8-4441-659-2	$700 \pm 10\%$	12	7,2	45,4
K-32/2x1	2 form A	8-4441-661-2	$500 \pm 10\%$		7,8	40,6
K-32/3x1	3 form A	8-4441-662-2	$250 \pm 10\%$		8,8	30,7
K-32/4x1	4 form A	8-4441-663-2	$170 \pm 10\%$		9,0	27,2
K-32/1x1	1 form A	8-4441-659-3	$2500 \pm 15\%$	24	15,0	83,4
K-32/2x1	2 form A	8-4441-661-3	$2000 \pm 15\%$		16,2	79,0
K-32/3x1	3 form A	8-4441-662-3	$1000 \pm 10\%$		17,5	61,4
K-32/4x1	4 form A	8-4441-663-3	$760 \pm 10\%$		18,9	57,6
K-32/1x1	1 form A	8-4441-659-4	$10000 \pm 15\%$	48	30,0	166,8
K-32/2x1	2 form A	8-4441-661-4	$6200 \pm 15\%$		30,0	139,0
K-32/3x1	3 form A	8-4441-662-4	$3000 \pm 15\%$		36,0	103,4
K-32/4x1	4 form A	8-4441-663-4	$2200 \pm 15\%$		35,4	95,2

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

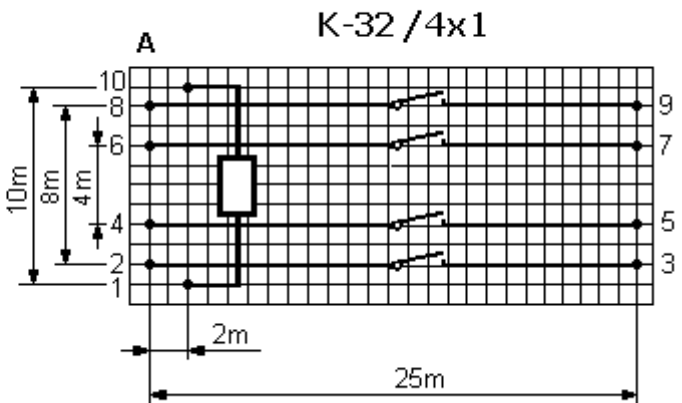
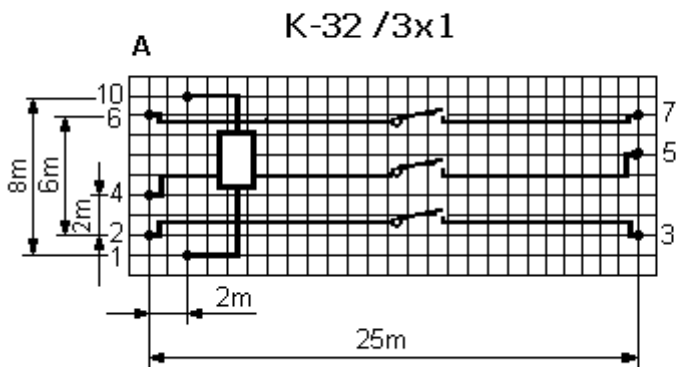
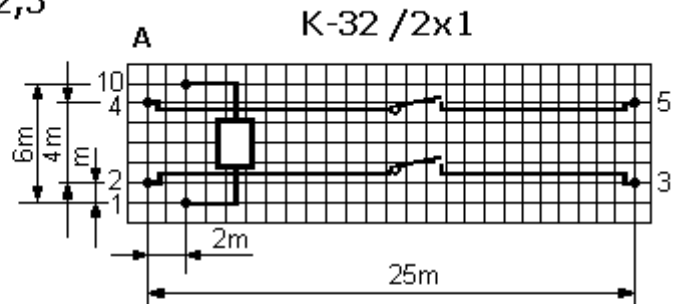
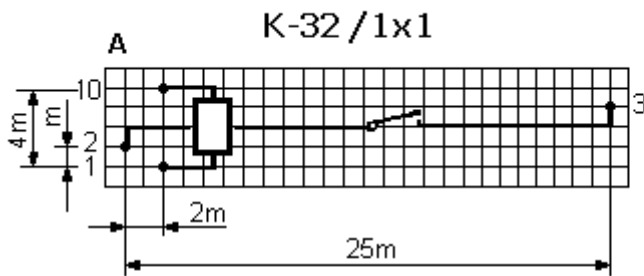
K-32/Nx1



Reed relay	Dimension "a" (max)
K-32/1x1	16,5 mm
K-32/2x1	22,5 mm
K-32/3x1	28 mm
K-32/4x1	33,5 mm

View from the bottom side of relay

m=2,5



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

When mounting into printed circuit boards, it is advisable to observe the following points to avoid damage to the relays:

- the time of continuous heating of terminals during soldering should not exceed 5 s,
- the soldering iron should not press on terminals during soldering,
- the relays should not be mounted near sources of strong magnetic fields, e.g. transformers, permanent magnets etc.,
- the relays should operate at nominal supply voltages.



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Reed relays type K-32/Nx21

This product is in accordance with RoHs

**Reed relay K-32 with 1 or 2 form C contacts
(changeover) for PCB's.**

PARAMETERS	Unit	TYPE
		K-32/Nx21

1. CONTACT PARAMETERS

Switching power	max	W, VA	16
Switching voltage	max	V_{DC}	110
		V_{AC}	200
Switching current	max	A	1
Contact resistance	max	mA	200
Life expectancy at 24V, 0,2A		operations	1×10^6

2. RELAY PARAMETERS

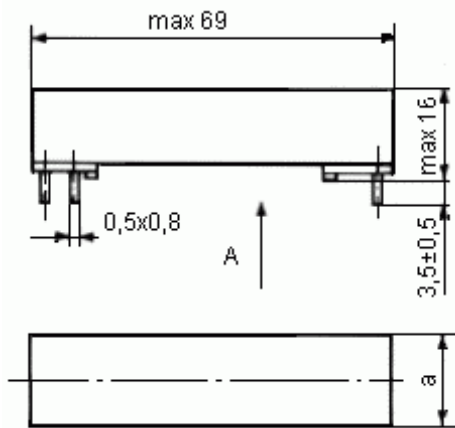
Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time incl. bounce time for: K-32 / 1 x 21 K-32 / 2 x 21	max	ms	2,5 4,0
Release time	max	ms	2,5
Test voltage:; contact contact/ contact contact/ coil contact/ shield coil/ shield	min	V_{AC}	400 500 500 500 500
Insulation resistance	min	A	10^9
Admissible ambient temperature			$-40^{\circ}C \div 70^{\circ}C$

3 LIST OF COILS AND OPERATING VOLTAGE RANGE

Symbol of relay	Contact arrangement	Index No	Coil resistance R_N [A] $t = 20^{\circ}C$	Supply voltage, $t = 20^{\circ}C$		
				U_N [V]	U_{MIN} [V]	U_{MAX} [V]
K-32/1x21 K-32/2x21	1 changeover 2 changeover	8-4441-705-1 8-4441-706-1	$180 \pm 10\%$ $95 \pm 10\%$	6	3,8 4,0	23,0 17,7
K-32/1x21 K-32/2x21	1 changeover 2 changeover	8-4441-705-2 8-4441-706-2	$700 \pm 10\%$ $370 \pm 10\%$	12	7,6 8,0	45,4 34,9
K-32/1x21 K-32/2x21	1 changeover 2 changeover	8-4441-705-3 8-4441-706-3	$2500 \pm 15\%$ $1500 \pm 10\%$	24	15,8 16,0	83,4 70,4
K-32/1x21 K-32/2x21	1 changeover 2 changeover	8-4441-705-4 8-4441-706-4	$10000 \pm 15\%$ $5000 \pm 15\%$	48	31,6 33,0	166,8 124,9

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

K-32/Nx21



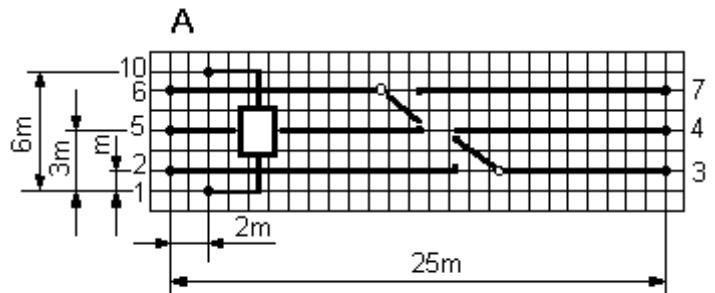
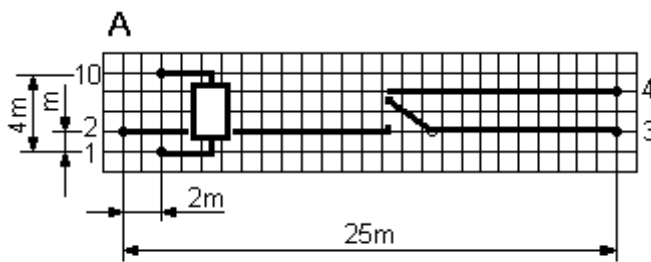
Reed relay	Dimension a (max)
K-32/1x21	16,5 mm
K-32/2x21	22,5 mm

View from the bottom side of relay

$m=2,5$

K-32/1x21

K-32/2x21



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

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- the relays should operate at nominal supply voltages.



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Reed relays type K-32/Nx2

This product is in accordance with RoHs

**Reed relay K-32 with 1 or 2 form B contacts
(normally closed) for PCB's.**

PARAMETERS	Unit	TYPE
		K-32/Nx2

1. CONTACT PARAMETERS

Switching power	max	W, VA	60
Switching voltage	max	V_{DC}	200
		V_{AC}	230
Switching current	max	A	1
Initial contact resistance	max	mA	150
Life expectancy at 60V, 1A		operations	$7,5 \times 10^6$

2. RELAY PARAMETERS

Operating voltage range		V	see p. 3
Coil resistance		A	see p. 3
Operate time for:			
	K32 / 1 x 2	max	ms
	K32 / 2 x 2		
			2,5
			3
Release time	max	ms	1,5
Test voltage.:			
contact		min	V_{AC}
contact/ contact			
contact/ coil			
contact/ shield			
coil/ shield			
			400
			500
			500
			500
			500
Insulation resistance	min	A	10^9
Admissible ambient temperature			$-25^{\circ}C \div 55^{\circ}C$

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

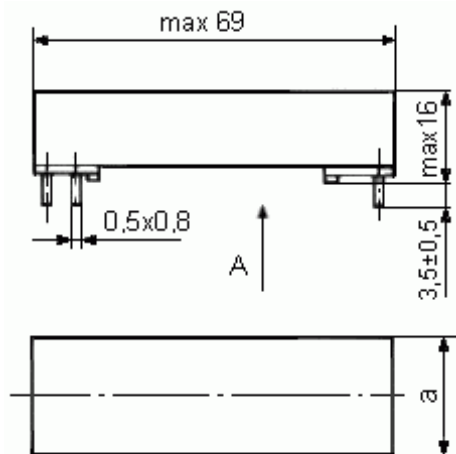
Symbol of relay	Contact arrangement _t	Index No	Coil resistance R_N [A] $t = 20^{\circ}C$	Supply voltage, $t = 20^{\circ}C$		
				U_N [V]	U_{MIN} [V]	U_{MAX} [V]
K-32/1x2	1 form B	8-4441-675-1	$100 \pm 10\%$	6	4,2	8,5
K-32/2x2	2 form B	8-4441-676-1	$100 \pm 10\%$		4,7	8,6
K-32/1x2	1 form B	8-4441-675-2	$410 \pm 10\%$	12	8,5	17,0
K-32/2x2	2 form B	8-4441-676-2	$410 \pm 10\%$		9,6	16,4
K-32/1x2	1 form B	8-4441-675-3	$1640 \pm 15\%$	24	17,8	34,0
K-32/2x2	2 form B	8-4441-676-3	$1640 \pm 10\%$		19,2	32,8

4. OPERATING VOLTAGE CONNECTION

Operations	Operating voltage connection	
breaking	+ to terminal 1	- to terminal 10
making	For relays with break contacts, making is achieved by switching off supply voltage	

5. DIMENSIONS AND TERMINAL ARRANGEMENTS

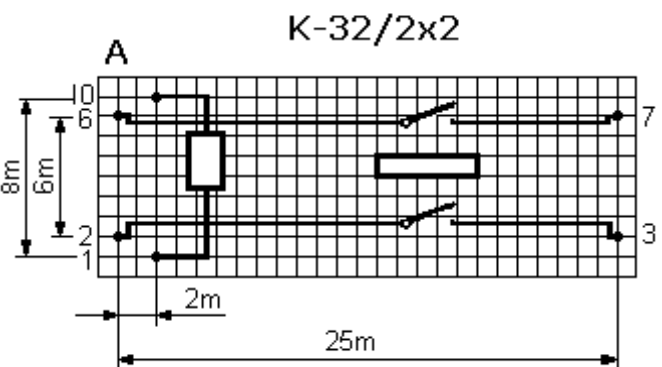
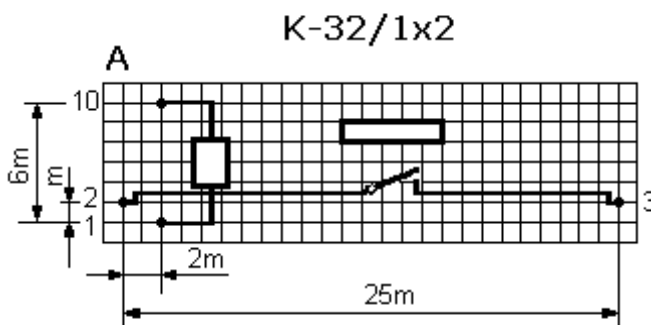
K-32/Nx2



Reed relay	Dimension "a" (max)
K-32/1x2	22,5 mm
K-32/2x2	28,0 mm

View from the bottom side of relay

$m=2,5$



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

When mounting into printed circuit boards, it is advisable to observe the following points to avoid damage to the relays:

- the time of continuous heating of terminals during soldering should not exceed 5 s,
- the soldering iron should not press on terminals during soldering,
- the relays should not be mounted near sources of strong magnetic fields, e.g. transformers, permanent magnets etc.,
- the relays should operate at nominal supply voltages.



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Reed relays type K-32/1xL

This product is in accordance with RoHs

Reed relay K-32 with 1 bi-stable (with magnetic holding) contact for PCB's.

PARAMETERS	Unit	TYPE
		K-32/1xL

1. CONTACT PARAMETERS

Switching power	max	W, VA	60
Switching voltage	max	V_{DC}	200
		V_{AC}	230
Switching current	max	A	1
Contact resistance	max	mA	150
Life expectancy at 60V, 1A		operations	$7,5 \times 10^6$

2. RELAY PARAMETERS

Operating voltage range		V	Pulse power supply (pulse width not less than 2.5 ms) see p. 3 and 4
Coil resistance		A	see p. 3
Operate time	max	ms	2,5
Release time	max	ms	2,5
Test voltage:			
contact			400
contact/ contact			500
contact/ coil	min	V_{AC}	500
contact/ shield			500
coil/ shield			500
coil/ coil			100
Insulation resistance	min	A	10^9
Insulation resistance winding - winding	min	A	2×10^8
Admissible ambient temperature			-25°C do 55°C

3. LIST OF COILS AND OPERATING VOLTAGE RANGE

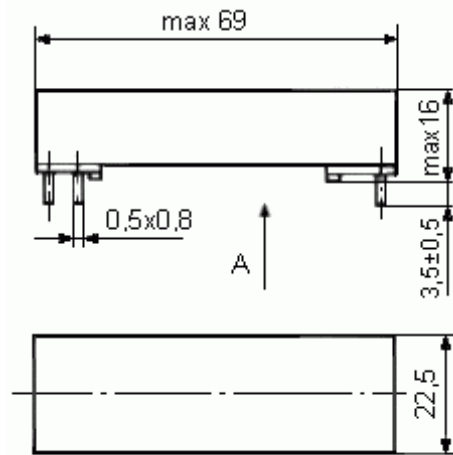
Symbol of relay	Contact arrangement	Index No	Coil resistance R_N [A] $t = 20^\circ C$	Supply voltage, $t = 20^\circ C$		
				U_N [V]	U_{MIN} [V]	U_{MAX} [V]
K-32/1xL	1 bi-stable	8-4441-678-1	300/300 $\pm 10\%$	6	4,9	8,6
K-32/1xL	1 bi-stable	8-4441-678-2	1200/1200 $\pm 15\%$	12	10,1	16,3
K-32/1xL	1 bi-stable	8-4441-678-3	4800/4800 $\pm 15\%$	24	20,2	32,6

4. OPERATING VOLTAGE CONNECTION

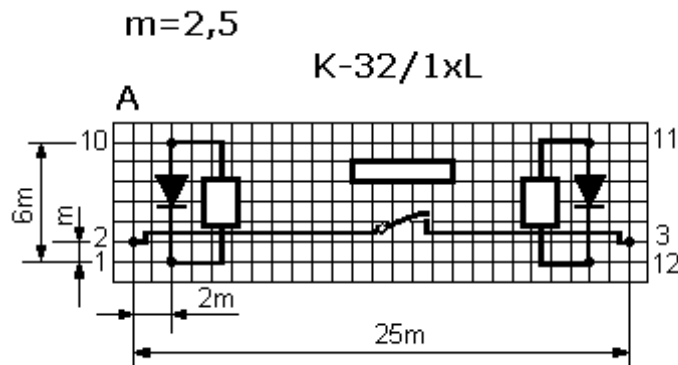
Operation	Pulse power supply with pulse width not less than 2,5 ms	
open	+ to terminal 12	- to terminal 11
close	+ to terminal 1	- to terminal 10

5. DIMENSIONS AND TERMINAL ARRANGEMENTS

K-32/1xL



View from the bottom side of relay



Ordering Information

When ordering relay please specify:

- symbol of relay
- index number

Recommendation for users

When mounting into printed circuit boards, it is advisable to observe the following points to avoid damage to the relays:

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