



High Voltage Products. High Voltage Experts.

**HV reed relays K-551H, K-552H
K-553H, K-554H, K-555H
form A contact (normally open)
for PCBs**

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE				
		K-551H	K-552H	K-553H	K-554H	K-555H

1. CONTACT PARAMETERS

Switching power	max	W, VA	50			10	
Breakdown voltage	min	kV _{DC}	7	10	14	17	18
Switching voltage (DC or AC PEAK)	max	kV	5	7,5	10	12	
Switching current	max	A	2		1		
Initial contact resistance	max	m	150				
Life expectancy			operations				
Load 1	5 kV _{DC} ,	1 mA	0,5x10 ⁶				
Load 2	7,5 kV _{DC} ,	1 mA		0,5x10 ⁶			
Load 3	10 kV _{DC} ,	1 mA			0,5x10 ⁶	0,5x10 ⁶	0,5x10 ⁶

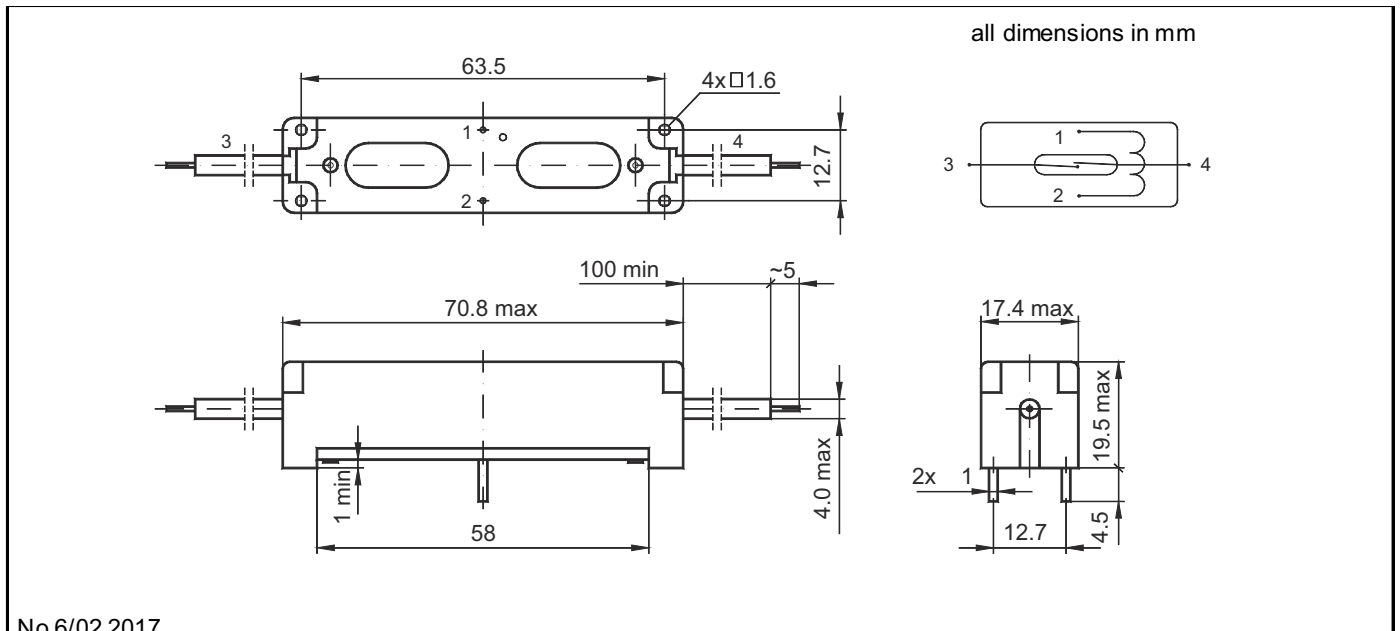
2. COIL PARAMETERS

Nominal voltage		V _{DC}	5/6/12/24				
Pull-in voltage	max	V _{DC}	4/4,5/9/18				
Drop-out voltage	min	V _{DC}	0,5/0,6/1/2				
Coil resistance	±10%		45/45/180/650				

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹⁰ (at 70°C)		10 ¹² (at 20°C)		
Operate time including bounces	max	ms	3,6				
Release time	max	ms	0,5				
Breakdown voltage coil-contact	min	kV _{DC}	15		30		
Environment category acc. to IEC 68-2-1÷3			40/85/21				

4. DIMENSIONS AND TERMINAL ARRANGEMENTS





High Voltage Products. High Voltage Experts.

HV reed relays K-555S form A contact (normally open) for PCBs

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE
		K-556S

1. CONTACT PARAMETERS

Switching power	max	W, VA	10
Breakdown voltage	min	kV _{DC}	19
Switching voltage (DC or AC PEAK)	max	kV	12
Switching current	max	A	1
Initial contact resistance	max	m	150
Life expectancy Load 3 10 kV _{DC} , 1 mA			operations 0,5x10 ⁶

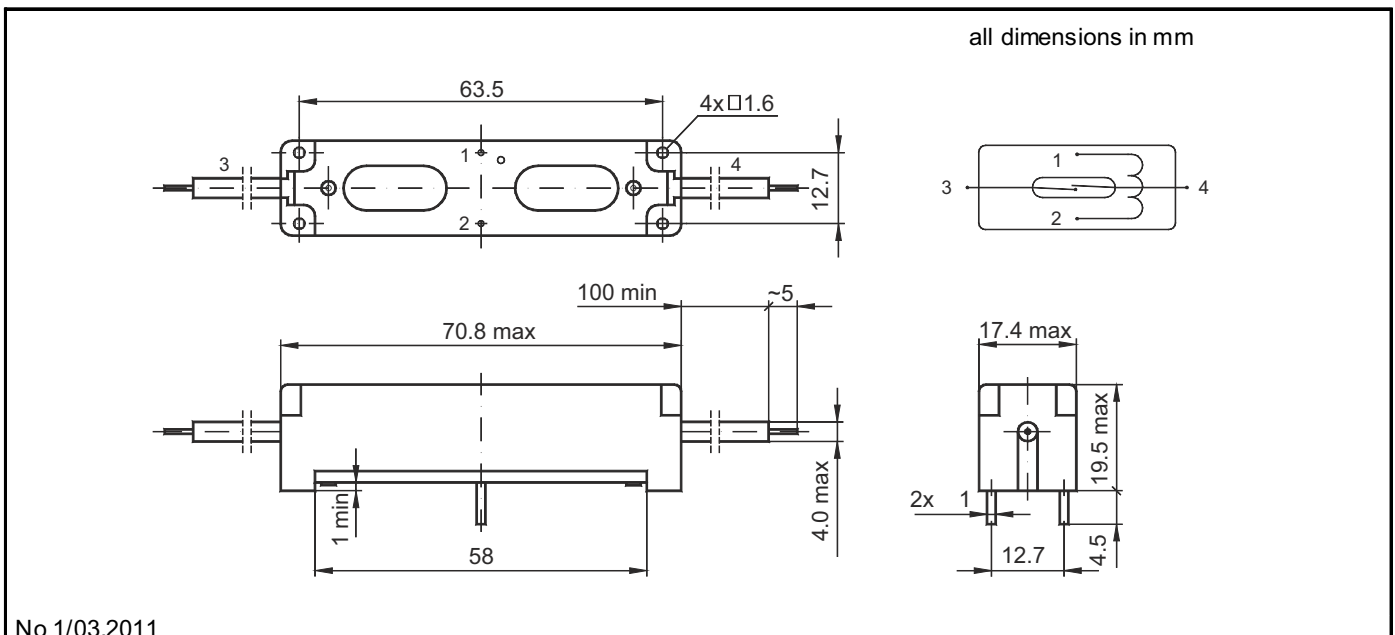
2. COIL PARAMETERS

Nominal voltage		V _{DC}	24
Pull-in voltage	max	V _{DC}	18
Drop-out voltage	min	V _{DC}	2
Coil resistance	±10%		400

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹⁰ (at 70°C) 10 ¹² (at 20°C)
Operate time including bounces	max	ms	3,6
Release time	max	ms	0,5
Breakdown voltage coil-contact	min	kV _{DC}	30
Environment category acc. to IEC 68-2-1÷3			40/85/21

4. DIMENSIONS AND TERMINAL ARRANGEMENTS



No 1/03.2011



High Voltage Products. High Voltage Experts.

HV reed relays K-561H, K-562H form A contact (normally open) for PCBs

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE	
		K-561H	K-562H

1. CONTACT PARAMETERS

Switching power	max	W, VA	50	
Breakdown voltage	min	kV _{DC}	7	10
Switching voltage (DC or AC PEAK)	max	kV	5	7,5
Switching current	max	A	2	
Initial contact resistance	max	m	150	
Life expectancy			operations	
Load 1	5 kV _{DC} ,	1 mA	0,5x10 ⁶	
Load 2	7,5 kV _{DC} ,	1 mA	0,5x10 ⁶	

2. COIL PARAMETERS

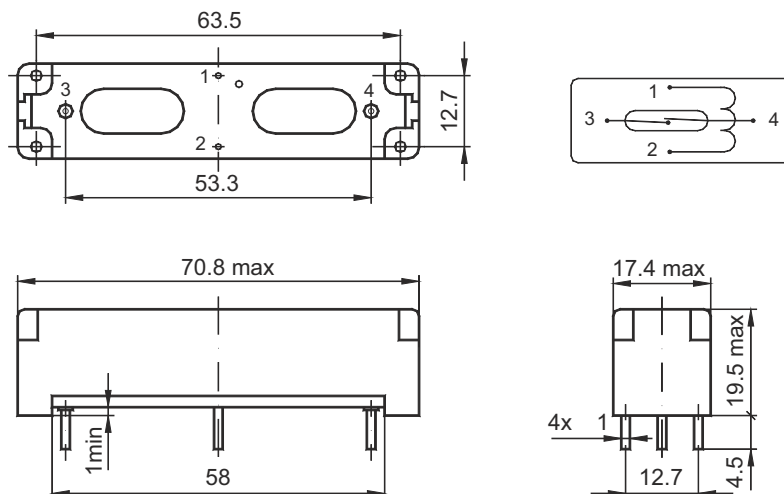
Nominal voltage		V _{DC}	5	6	12	24	5	6	12	24
Pull-in voltage	max	V _{DC}	4	4,5	9	18	4	4,5	9	18
Drop-out voltage	min	V _{DC}	0,5	0,6	1	2	0,5	0,6	1	2
Coil resistance	±10%		45	45	180	650	45	45	180	650

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹⁰ (at 70°C)	10 ¹² (at 20°C)
Operate time including bounces	max	ms	3,6	
Release time	max	ms	0,5	
Breakdown voltage coil-contact	min	kV _{DC}	15	
Environment category acc. to IEC 68-2-1÷3			40/85/21	

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

all dimensions in mm



No 7/01.2007



High Voltage Products. High Voltage Experts.

HV red relays R-561,R-562 form A contact (normally open) for PCBs

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE	
		R-561	R-562

1. CONTACT PARAMETERS

Switching power	max	W,VA	50	
Breakdown voltage	min	kV _{DC}	7	10
Switching voltage (DC or AC PEAK)	max	kV	5	7,5
Switching current	max	A	2	
Initial contact resistance	max	m	150	
Life expectancy			operations	
Load 1 5 kV _{DC} , 1 mA			0,5x10 ⁶	
Load 2 7,5 kV _{DC} , 1 mA				0,5x10 ⁶

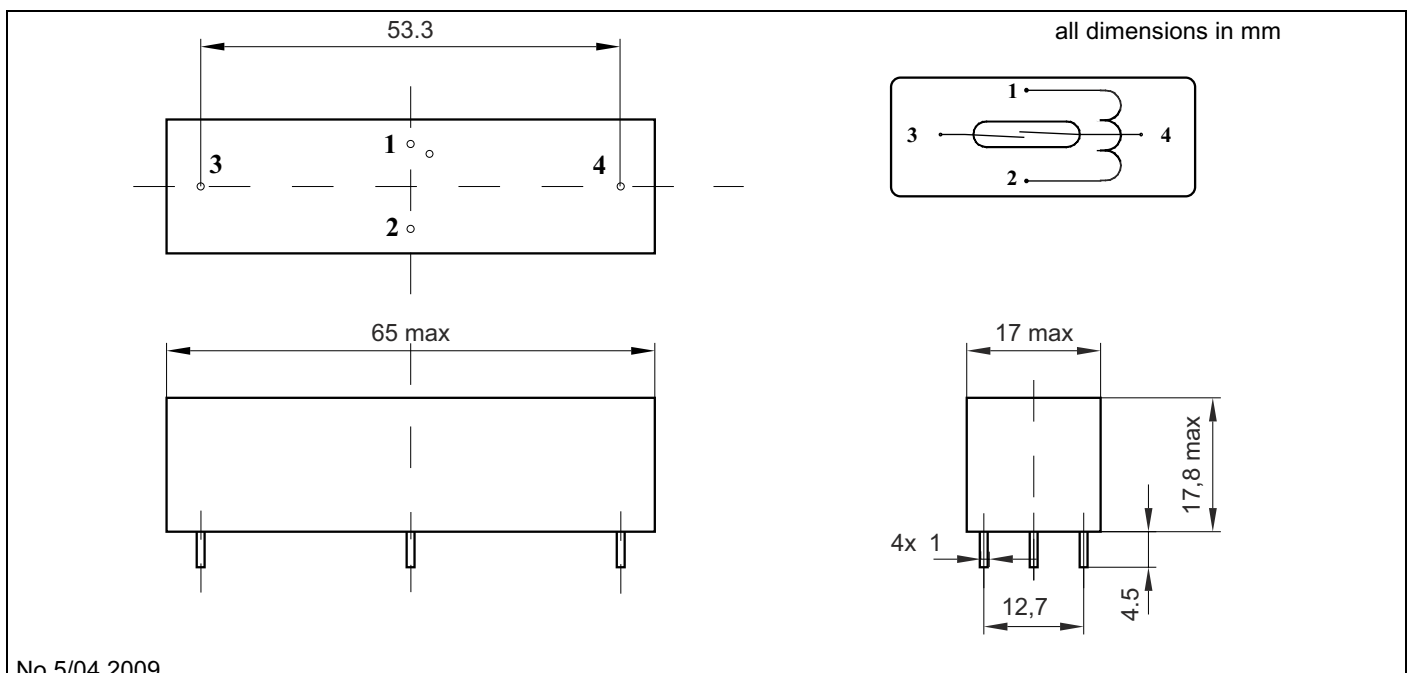
2. COIL PARAMETERS

Nominal voltage		V _{DC}	5	6	12	24	5	6	12	24
Pull-in voltage	max	V _{DC}	4	4,5	9	18	4	4,5	9	18
Drop-out voltage	min	V _{DC}	0,5	0,6	1	2	0,5	0,6	1	2
Coil resistance	±10%		45	45	180	650	45	45	180	650

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹⁰ (at 70°C)	10 ¹² (at 20°C)
Operate time including bounces	max	ms	3,6	
Release time	max	ms	0,5	
Breakdown voltage coil-contact	min	kV _{DC}	15	
Environment category acc. to IEC 68-2-1÷3			40/85/21	

4. DIMENSIONS AND TERMINAL ARRANGEMENTS



No 5/04.2009



High Voltage Products. High Voltage Experts.

HV reed relays K-561B, K-562B form B contact (normally closed) for PCBs

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE	
		K-561B	K-562B

1. CONTACT PARAMETERS

Switching power	max	W, VA	50	
Breakdown voltage	min	kV _{DC}	7	10
Switching voltage (DC or AC PEAK)	max	kV	5	7,5
Switching current	max	A	2	
Initial contact resistance	max	m	150	
Life expectancy			operations	
Load 1	5 kV _{DC} ,	1 mA	0,5x10 ⁶	
Load 2	7,5 kV _{DC} ,	1 mA		0,5x10 ⁶

2. COIL PARAMETERS

		Min	Nom	Max
Coil voltage*	V _{DC}		12/24	16/30
Pull-in voltage	V _{DC}	2/4		9/18
Drop-out voltage	V _{DC}	1,9/3,9		8,9/17,9
Coil resistance	±10%	225/900	250/1000	275/1100

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹¹	
Operate time	max	ms	2,6	
Release time including bounces	max	ms	3,6	
Breakdown voltage coil-contact	min	kV _{DC}	15	
Environment category acc. to IEC 68-2-1+3			40/85/21	

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

all dimensions in mm

*Coil polarity must be observed. See drawing for the positive pin.
Relays are susceptible to magnetic interaction due to bias internal magnet.

No 5/08.2006



High Voltage Products. High Voltage Experts.

HV reed relays K-551B, K-552B form B contact (normally closed) for PCBs

This product is in accordance with RoHs

PARAMETERS	Unit	TYPE	
		K-551B	K-552B

1. CONTACT PARAMETERS

Switching power	max	W, VA	50	
Breakdown voltage	min	kV _{DC}	7	10
Switching voltage (DC or AC PEAK)	max	kV	5	7,5
Switching current	max	A	2	
Initial contact resistance	max	m	150	
Life expectancy			operations	
Load 1	5 kV _{DC} ,	1 mA	0,5x10 ⁶	
Load 2	7,5 kV _{DC} ,	1 mA	0,5x10 ⁶	

2. COIL PARAMETERS

		Min	Nom	Max
Coil voltage*	V _{DC}		12/24	16/30
Pull-in voltage	V _{DC}	2/4		9/18
Drop-out voltage	V _{DC}	1,9/3,9		8,9/17,9
Coil resistance	10%	225/900	250/1000	275/1100

3. RELAY PARAMETERS

Insulation resistance (at 1000V _{DC})	min		10 ¹¹	
Operate time	max	ms	2,6	
Release time including bounces	max	ms	3,6	
Breakdown voltage coil-contact	min	kV _{DC}	15	
Environment category acc. to IEC 68-2-1+3			40/85/21	

4. DIMENSIONS AND TERMINAL ARRANGEMENTS

all dimensions in mm

The drawings show the following dimensions and features:

- Top View:** Shows a rectangular package with a width of 63 mm (max) and a height of 4.0 mm (max). The coil terminals are labeled 1 (+12V/24V) and 2.
- Side View:** Shows a length of 100 mm (min) and a terminal offset of ~5 mm.
- Terminal View:** Shows two terminals with a spacing of 17.8 mm and a terminal width of 4.5 mm. The overall terminal block width is 24.5 mm (max) and height is 19 mm (max).
- Internal View:** Shows the coil winding with terminals 1, 2, 3, and 4.

*Coil polarity must be observed. See drawing for the positive pin.
Relays are susceptible to magnetic interaction due to bias internal magnet.

No 6/09.2010