

## High Voltage Dry Reed Relays for up to 15kV

### FEATURES

- **SoftCenter™** construction
- Up to 15 kV stand-off
- 12.5 kV switching
- Small size
- Easy mounting
- Long life
- Fully encapsulated

**Series 62** Chassis mounting with push-on connections on the top face

**Series 63** Printed circuit mounting with push-on high voltage connections on the top face

The Series 62 and 63 ranges of high voltage reed relays feature push-on terminals and are supplied complete with the appropriate connectors and insulating boots.

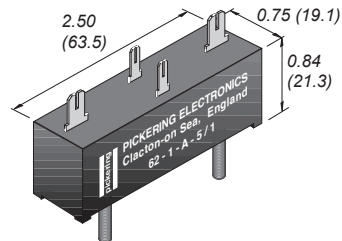
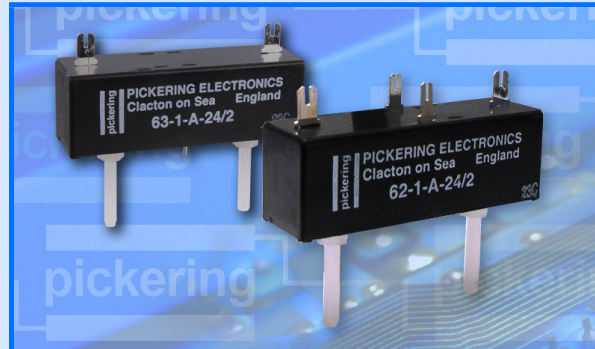
They are available for up to 15kV stand-off, 12.5kV switching at 50 Watts maximum. Tungsten plated contacts ensure a long and reliable life.

Both Form A (energize to make) and Form B (energize to break) configurations are available and it is usually possible to achieve a Form C (change-over) function by using a Form A and a Form B type together.

These relays feature an internal mu-metal magnetic screen which permits the Form A (energize to make) versions to be mounted side by side. Special versions can be manufactured with an electrostatic screen and/or earth connection to the magnetic screen. This can often be useful where EMC problems are encountered, please contact our technical sales office.

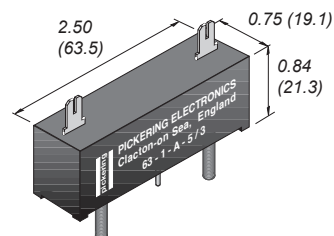
Form B types are magnetically biased and should not be mounted directly onto ferrous metal chassis or less than 1 inch (25mm) away from other relays as the coil operating voltage characteristics will be altered due to magnetic interaction. The coils of Form B relays are polarity sensitive, the positive connection is identified by a red spot.

5, 12, and 24 volt coils are available as standard other voltages can be supplied to special order.



Dimensions in Inches  
(Millimetres in brackets)

### Series 62



Dimensions in Inches  
(Millimetres in brackets)

### Series 63

### Switch Ratings

- **1 Form A (energize to make)** Switch Number 1, 5kV stand-off. 3.5kV switching at up to 50 Watts
- **1 Form A (energize to make)** Switch Number 2, 10kV stand-off. 7.5kV switching at up to 50 Watts
- **1 Form A (energize to make)** Switch Number 3, 15kV stand-off. 12.5kV switching at up to 50 Watts
- **1 Form B (energize to break)** Switch Number 1, 5kV stand-off. 3.5kV switching at up to 50 Watts
- **1 Form B (energize to break)** Switch Number 2, 10kV stand-off. 7.5kV switching at up to 50 Watts

### Series 62, 63 switch ratings

The contact ratings for each switch type are shown below:

Sw. No	Switch form	Max Power rating	Max. Switching current	Max. Switching Volts	Max. Stand-Off volts
1	A or B	50 Watts	3 Amp. *	3500	5000
2	A or B	50 Watts	3 Amp. *	7500	10000
3	A	50 Watts	3 Amp. *	12500	15000

\* Important. This is the maximum current rating at 50 Watts. If, for example, you wish to switch 5000 volts, the maximum current will be 10mA. Multiply your instantaneous switching current by the voltage to be switched, to ensure that you do not exceed this 50 Watts rating. Capacitive inrush currents can sometimes be high due to the voltages involved, if possible insert a series resistance into the circuit to limit this. Contact our Technical Department for assistance if required.

### Series 62 Coil data and type numbers

Device type	Type Number	Coil (V)	Coil Resistance
1 Form A (energize to make) Switch No. 1, 5kV Stand-Off	62-1-A-5/1	5	50
	62-1-A-12/1	12	150
	62-1-A-24/1	24	500
1 Form A (energize to make) Switch No. 2, 10kV Stand-Off	62-1-A-5/2	5	50
	62-1-A-12/2	12	150
	62-1-A-24/2	24	500
1 Form B (energize to break) Switch No. 1, 5kV Stand-Off	62-1-B-5/1	5	50
	62-1-B-12/1	12	150
	62-1-B-24/1	24	500
1 Form B (energize to break) Switch No. 2, 10kV Stand-Off	62-1-B-5/2	5	50
	62-1-B-12/2	12	150
	62-1-B-24/2	24	500

### Series 63 Coil data and type numbers

Device type	Type Number	Coil (V)	Coil Resistance
1 Form A (energize to make) Switch No. 1, 5kV Stand-Off	63-1-A-5/1	5	50
	63-1-A-12/1	12	150
	63-1-A-24/1	24	500
1 Form A (energize to make) Switch No. 2, 10kV Stand-Off	63-1-A-5/2	5	50
	63-1-A-12/2	12	150
	63-1-A-24/2	24	500
1 Form A (energize to make) Switch No. 3, 15kV Stand-Off	63-1-A-5/3	5	25
	63-1-A-12/3	12	75
	63-1-A-24/3	24	350
1 Form B (energize to break) Switch No. 1, 5kV Stand-Off	63-1-B-5/1	5	50
	63-1-B-12/1	12	150
	63-1-B-24/1	24	500
1 Form B (energize to break) Switch No. 2, 10kV Stand-Off	63-1-B-5/2	5	50
	63-1-B-12/2	12	150
	63-1-B-24/2	24	500

### Other Pickering HV reed relays

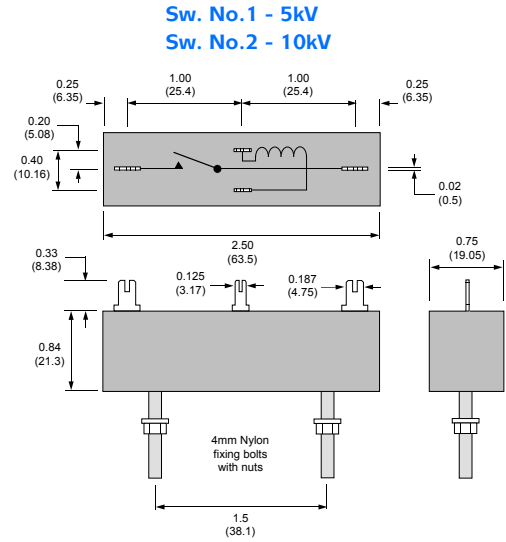
If similar relays with PCB pins for both switch and coil connections are preferred, please look at our Series 65. If your requirement is for voltages, up to 3kV, please look at our Series 104 Single-in-Line relays.

Pickering Electronics Limited  
Stephenson Road  
Clacton-on-Sea  
CO15 4NL  
England  
email: sales@pickeringrelay.com  
Tel. (UK) 01255 428141  
(International) +44 1255 428141  
Fax. (UK) 01255 475058  
(International) +44 1255 475058

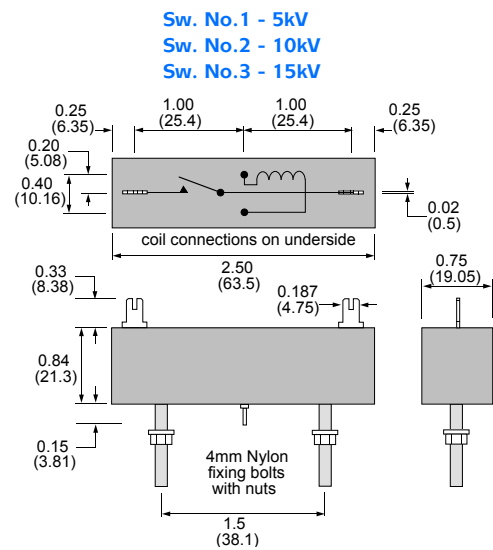


ISO9001  
Manufacture of Reed Relays  
FM 29036

### Series 62 Chassis mounting HV reed relays Dimensions and connection details



### Series 63 PCB mounting HV reed relays Dimensions and connection details



### Order Code

The following example indicates data required to process your order promptly:

**62 - 1 - A - 5 / 2**

Series \_\_\_\_\_  
Number of reeds \_\_\_\_\_  
Switch form \_\_\_\_\_  
Coil voltage \_\_\_\_\_  
Switch number (See table adjacent) \_\_\_\_\_

### Help !!!

If you need any technical advice or help in any way, please telephone our Technical Sales Department. There is a limit to how much data we can put on a sales leaflet and we will always be pleased to discuss Pickering reed relays with you.

**Please ask us for a FREE evaluation sample**