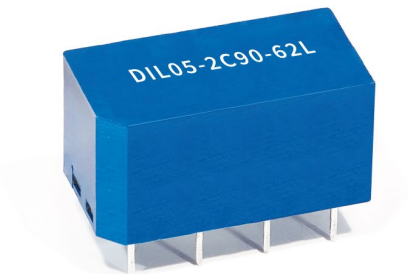


DIL Series Reed Relays

- Features Compatible with 14 pin DIL socket, High resistance coil up to 11 kOhm available
- Available with Dielectric Strength 4.25kVDC, Diode, Magnetic Shield & Others
- Markets: General purposes, Telecommunications, Test and Measurement & Others



Part Description: DIL00-0X00-00X

Nominal Voltage	Contact Quantity & Contact Form	Switch Model	Pin Out	Option () Version with Magnetic Shield
05, 12, 24	1A, 2A, 1C, 2C, 4A	66, 75, 90	13, 15, 21, 51, 62, 63	L(M), D(Q), E(R), F(S)

See page 3 for explanation of pin outs and options

Customer Options	Switch Model			Unit
Contact Data (@ 20°C)	66 (A-Dry)	75 (A-Dry)	90 (C-Dry)	
Contact Material	Rhodium	Rhodium	Rhodium	
Rated Power (max.) Any DC combination of V&A not to exceed max. rated power	10	10	10	W
Switching Voltage (max.) DC or peak AC	200	500	175	V
Switching Current (max.) DC or peak AC	0.5	0.5	0.5	A
Carry Current (max.) DC or peak AC	1.0	1.0	1.0	A
Contact Resistance (max.) @ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	150	200	150	mOhm
Breakdown Voltage (min.) According to EN60255-27	0.225	0.6	0.2	kVDC
Operating Time (max.) Including Bouncing, Measured with 40% Pull-In Overdrive	0.5	0.5	0.7	ms
Release Time (max.) Measured without Coil Suppression	0.1	0.1	1.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10 ¹⁰	10 ¹⁰	10 ¹⁰	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.2	0.4	1.0	pF

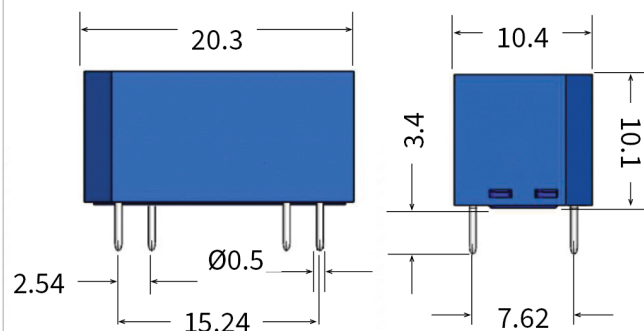
DIL Series Reed Relays

Coil Data (at 20°C)			Coil Voltage (VDC)		Coil Resistance (Ohm)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Coil Power (mW)
Contact Form	Switch Model	Pin Out	Nominal	Max.	Typical (± 10 %)	Max.	Min.	Nominal
1A	66, 75,	13, 15	5		450	3.5	0.75	55
			12		1.8	8.4	1.8	80
			24		4.5	16.8	3.6	130
2A	66, 75	21	5		200	3.5	0.75	120
			12		680	8.4	1.8	210
			24		2	16.8	3.6	290
4A	66, 75		5		140	3.5	0.75	179
			12		400	8.4	1.8	360
			24		1.9	16.8	3.6	303
1C	90	51	5		200	3.5	0.75	125
			12		1	8.4	1.8	145
			24		3	16.8	3.6	190
2C	90	62, 63	5		150	3.5	0.75	165
			12		680	8.4	1.8	210
			24		2	16.8	3.6	290

The Pull-In, Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °K

Relay Data (@ 20°C)		Unit
Dielectric Strength Coil/Contact (min.) According to EN60255-27	1.5 (4.25 by 73L)	kVDC
Insulation Resistance Coil/Contact (min./typ.) 1/2 sine wave, 6md, 3-axis	10 ¹⁰ /10 ¹¹	Ohm
Capacitance Coil/Contact (typ.) @ 10 kHz	1.2	pF
Shock Resistance (max.) 1/2 sine wave, 6md, 3-axis	50	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-20 to 70	°C
Storage Temperature (max.) Surrounding of the relay's housing	-35 to 95	°C
Soldering Temperature (max.) 5 sec. max.	260	°C
Washability Aqueous rinse suitable. Proper drying necessary.	Fully Sealed	

Dimensions (in mm [inch]) Tolerances acc. to ISO 2768-m

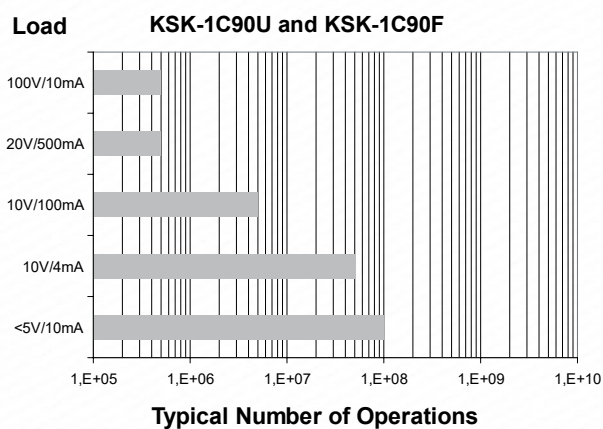
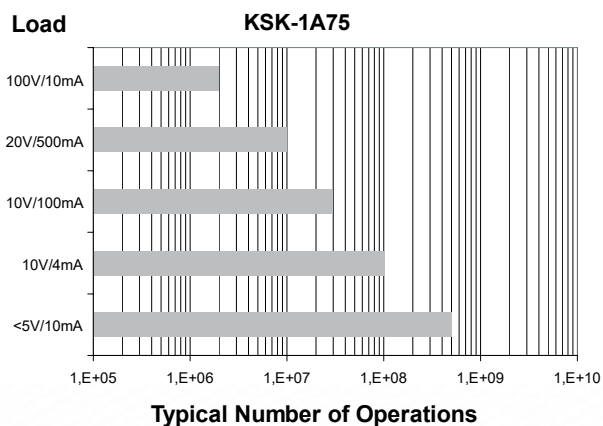
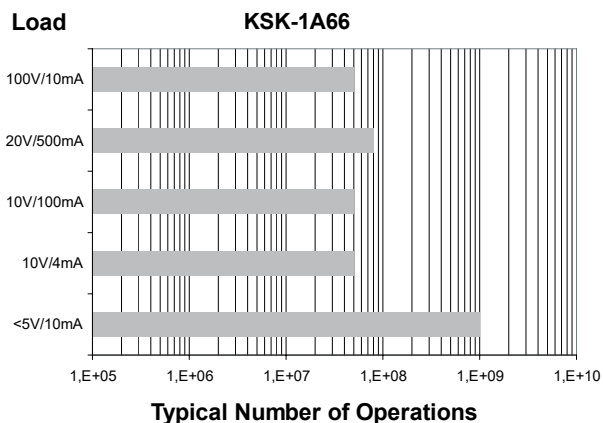


Handling & Assembly Instructions

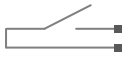
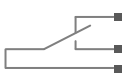
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

DIL Series Reed Relays

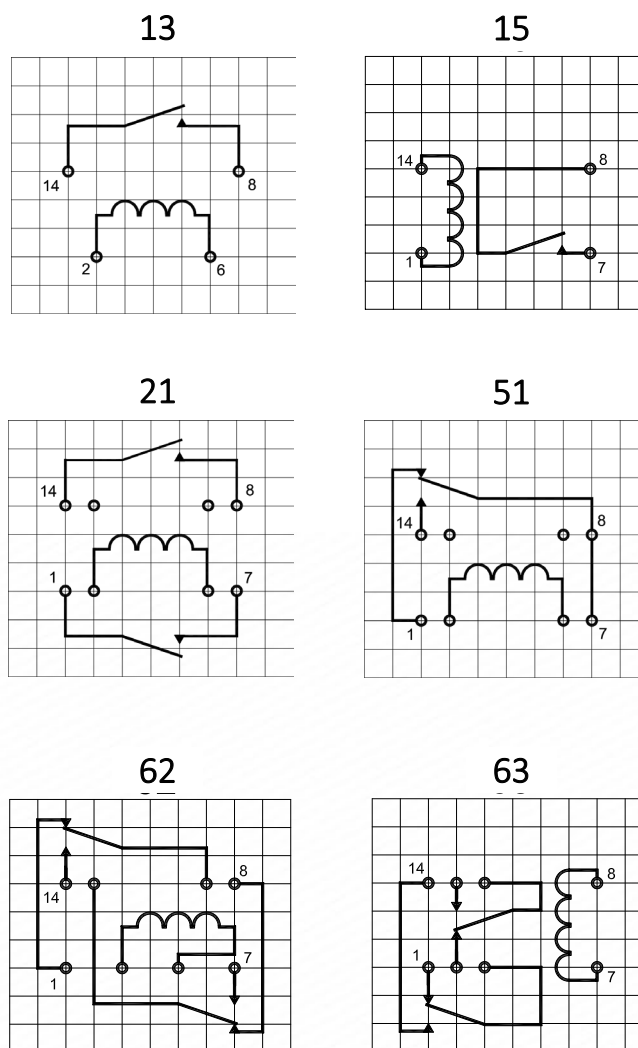
Life Test Data (*Load increase reduces life expectancy of Reed Switches)



Glossary Contact Form

Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

Pin-Out (Top View) (2.54mm [0.10"] pitch grid)



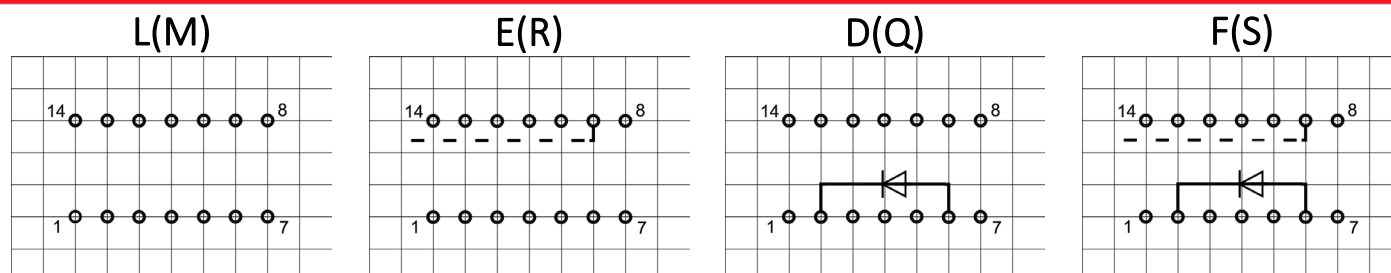
DIL Series Reed Relays

Contact Form	Switch Model	Pin Out	Options*							
			L	D	M	Q	E	R	F	S
1A		13	X							
		15		X	X	X	X	X	X	X
2A		21	X	X	X	X				
4A			X	X	X	X	X	X	X	X
1C	90	51	X							
2C	90	62		X	X	X	X	X	X	X
		63								

* For general information only. Please ask your nearest sales office for a current availability of the particular option.

Options () Versions with magnetic shield

(Top View) (2.54mm [0.10"] pitch grid)



Please Note: Any option can affect the coil resistance, the breakdown voltage or other electrical data. Please contact us.

Special performance: The following special options are available on request:

- Other pinning layout
- Other coil resistance values
- Other switches available

Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.