

### **FEATURES**

- · Compatible with 14 pin DIL socket
- · High resistance coil up to 11 kOhm available.
- Plastic case sealed with PU-resin
- · Magnetic shield available
- 4.25 kVDC breakdown voltage available.
- Diode option
- RoHS compliant.

#### DESCRIPTION

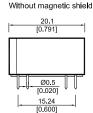
Several pin out options are possible with the 14 pin DIL series. Suitable for telecommunication applications where breakdown voltages up to 4.25 kVDC is required.

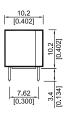
### **CHARACTERISTICS**

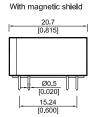
- Telecommunications
- General purposes
- Test and Measurement
- Medical equipment

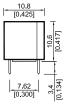
### **DIMENSIONS**

All dimensions in mm [inch]









### ORDER INFORMATION

Series	Series Nominal Voltage		Switch Model	Pin Out	Option () Version with magnetic Shield	Version	
DIL	xx -	жх	xx -	жх	х	хх	
Options	05, 12, 24	1A	66, 72, 75	13*,15		HR, L	
		2A	66, 72, 75	21	L(M),D(Q),E(R) <sup>t</sup> , F(S) <sup>tt</sup>	L	
	05, 12	1C	90	51*	F(S) <sup>tt</sup>	HR, L	
	05, 12, 24	2C	90	62, 63		L	
* When HR is	selected, 24 V c	<sup>t</sup> Not available with Pin out 62, 63.					

#### Part Number Example

DIL12 - 1A72 - 10LHR

12 is the nominal voltage

1A is the contact form

72 is the switch model

13 is the pin out

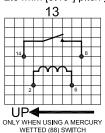
**L** is the option

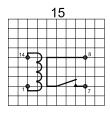
HR is the high resistance version

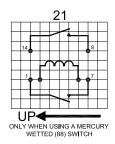
L = No Option.

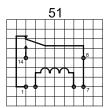
## **PIN OUT**

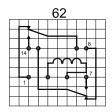
View from top of component 2.54mm [0.10"] pitch grid

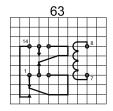








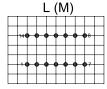


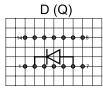


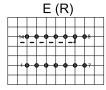
## **OPTIONS**

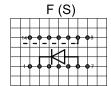
() Versions with magnetic shield

View from top of component 2.54mm [0.10"] pitch grid









Please note: any option can affect the coil resistance, the breakdown voltage or other electronical data. Please contact us.

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

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

## **RELAY DATA**

All Data at 20° C	Switch Model → Contact Form →	Switch 66 Form A			Switch 72 Form A			
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s.			10			15	W
Switching Voltage	DC or peak AC			200			200	V
Switching Current	DC or peak AC			0.5			1.0	Α
Carry Current	DC or peak AC			1.25			1.25	Α
Static Contact Resistance	Measured w/ 0.5 V & 50 mA			150			150	mΩ
Dynamic Contact Resistance	Measured w./ 0.5 V &50m A, 1.5 ns after closure			200			200	mΩ
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 <sup>10</sup> 10 <sup>12</sup>			10 <sup>12</sup> 10 <sup>12</sup>			Ω
Breakdown Voltage	Across contacts Coil to contact	225 1.5*			250 1.5*			VDC kVDC
Operate Time incl. Bounce	Nominal voltage			0.5			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	Across contacts Contact to coil		0.2 4.0			0.4 4.0		pF
Life Expectancies								
Switching 5V & 10 mA	DC only & < 10 pF stray cap.		1000			1000		10 <sup>6</sup> Cycles
For other load requirements, see	the life test section on P. 120.							
Environmental Data								
Shock Resistance	1/2 sine wave duration for 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Storage Temperature	e Temperature 10°C/ minute max. allowable			85	-35		95	°C
Soldering Temperature	5 sec. dwell			260			260	°C
* 4.25 kVDC / 3.0 kVRMS fo	or pin outs 13 and 15.							

# **RELAY DATA**

All Data at 20° C	Switch Model → Contact Form →				vitch orm				
Contact Ratings	Conditions	Min.	Тур.	Мах.	Min.	Тур.	Мах.	Units	
Switching Power	Any DC combination of V & A not to exceed their individual max.'s.			10			10	W	
Switching Voltage	DC or peak AC			500			175	V	
Switching Current	DC or peak AC			0.5			0.5	Α	
Carry Current	DC or peak AC			1.0			1.0	Α	
Static Contact Resistance	Measured w/ 0.5 V & 50 mA			200			150	mΩ	
Dynamic Contact Resistance	Measured w./ 0.5 V &50m A, 1.5 ns after closure			200			250	mΩ	
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 <sup>10</sup> 10 <sup>12</sup>			10 <sup>9</sup> 10 <sup>12</sup>			Ω	
Breakdown Voltage	Across contacts Coil to contact	1500 1.5*			200 1.5			VDC kVDC	
Operate Time incl. Bounce	Nominal voltage			0.5			0.7	ms	
Release Time	Measured w/ no coil suppression			0.1			1.5	ms	
Capacitance	Across contacts Contact to coil		0.4 4.0			1.0 4.0		pF	
Life Expectancies									
Schaltspannung 5V - 10 mA	DC <10 pF Streukapazität		500			100		10 <sup>6</sup> Cycles	
For other load requirements, see	the life test section on P. 120								
Allgemeine Daten									
Shock Resistance	1/2 sine wave duration for 11 ms			50			50	g	
Vibration Resistance	From 10 - 2000 Hz			20			20	g	
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C	
Storage Temperature	10°C/ minute max. allowable	-25		85	-25		85	°C	
Soldering Temperature	5 sec. dwell			260			260	°C	
* 4.25 kVDC / 3.0 kVRMS for pin outs 13 and 15.									

# **COIL DATA**

Contact Form	Switch Model	Coil V	oil Voltage Coil Resistance		Pull-in Voltage	Drop-out Voltage	Nominal Coil Power		
All Data at 20 °C *		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Тур.	Max.	Max.	Min.	Тур.
	66 72 75	5	7.5	405	450	495	3.5	0.75	55
1A		12	16	1620	1800	1980	8.4	1.8	80
		24	30	4050	4500	4950	16.8	3.6	130
		5	7.5	180	200	220	3.5	0.75	125
2A	66 72 75	12	16	621	680	748	8.4	1.8	210
		24	30	1800	2000	2200	16.8	3.6	290
		5	7.5	180	200	220	3.5	0.75	125
1C	90	12	16	900	1000	1100	8.4	1.8	145
		24	30	2700	3000	3300	16.8	3.6	190
		5	7.5	145	150	165	3.5	0.75	165
2C		12	16	612	680	748	8.4	1.8	210
		24	30	1800	2000	2200	16.8	3.6	290