INTERFACES
Relay Modules and Carriers
Isolated Channels
35 or 32mm DIN Rail

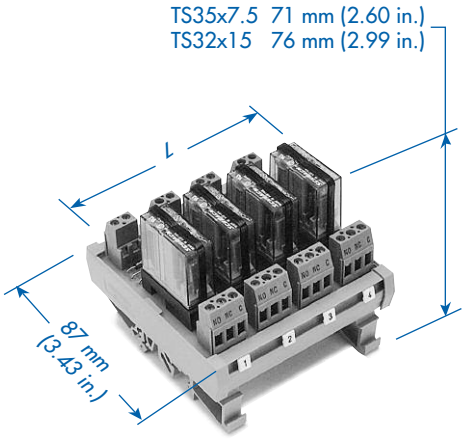
Isolated channels (no bus) allow control of each relay by a different logic system, if necessary. Mix sourcing (positive switching, Vcc on/off) and sinking (negative switching, ground on/off) on a single multi-relay module. Provide spare relay channels for future needs without committing to a specific logic power supply, and without committing coil-drive power for more than one relay at a time.

Altech Relay Modules provide high density packaging of miniature general purpose relays with Single Pole Double Throw (Form C) and Double Pole Double Throw (2 Form C) contact configurations and low current AC and DC coils. Load your own relays in our RC Relay Carrier, or order the RM Relay Module complete with relays.

Call us with your custom module requirements!

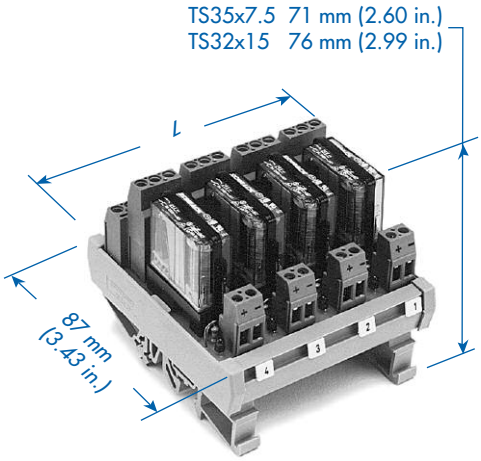
- Screw-Cage Clamp Connections
- LED Coil Voltage Indicator
- Reverse DC Polarity LED Protection
- Surge Suppression with DC Coil
- DIN Rail Mount, Panel Mount Available

RC1 / RM1
Single Pole Double Throw



Contact Ratings		
Wire Range	Current	Voltage
0.5-4mm^2		250VAC/
30-14 AWG	10A	30VDC

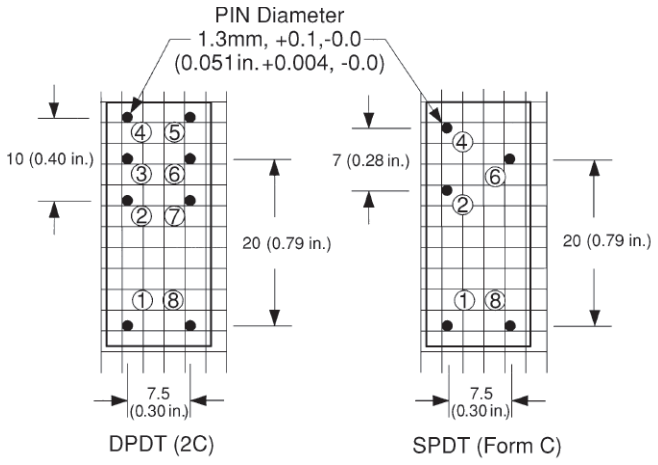
RC2 / RM2
Double Pole Double Throw



Contact Ratings		
Wire Range	Current	Voltage
0.5-4mm^2		250VAC/
30-14 AWG	2 x 5A	30VDC

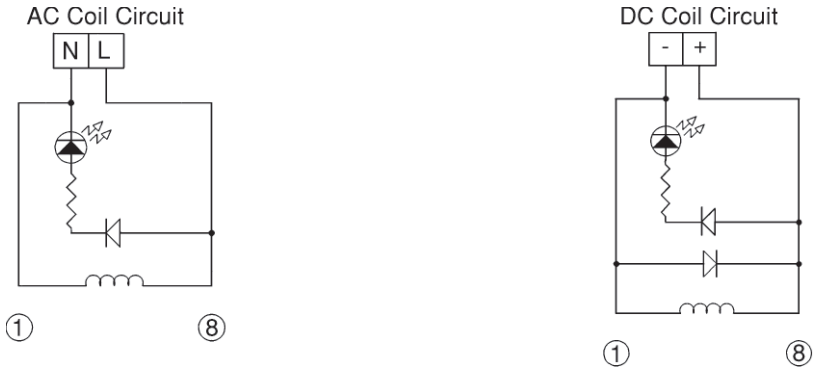
Ordering Information	Module Length (L) mm (in.)	Carrier Only Type	Carrier Only Cat. No.	Module with Relays Type	Module with Relays Cat. No.	Carrier Only Type	Carrier Only Cat. No.	Module with Relays Type	Module with Relays Cat. No.
1 Channel, Coil Voltage	21 (0.83)								
12V DC		RC1E1	**8929.5**	RM1E1	**8929.2**	RC2E1	**8945.5**	RM2E1	**8949.2**
24V DC		RC1G1	**8933.5**	RM1G1	**8933.2**	RC2G1	**8951.5**	RM2G1	**8951.2**
110V AC		RC1U1	**8935.5**	RM1U1	**8935.2**	RC2U1	**8953.5**	RM2U1	**8953.2**
220V AC		RC1X1	**8940.5**	RM1X1	**8940.2**	RC2X1	**8954.5**	RM2X1	**8954.2**
2 Channel, Coil Voltage	40 (1.57)								
12V DC		RC1E2	**8929.6**	RM1E2	**8929.3**	RC2E2	**8949.6**	RM2E2	**8949.3**
24V DC		RC1G2	**8933.6**	RM1G2	**8933.3**	RC2G2	**8951.6**	RM2G2	**8951.3**
110V AC		RC1U2	**8935.6**	RM1U2	**8935.3**	RC2U2	**8953.6**	RM2U2	**8953.3**
220V AC		RC1X2	**8940.6**	RM1X2	**8940.3**	RC2X2	**8954.6**	RM2X2	**8954.3**
4 Channel, Coil Voltage	79 (3.11)								
12V DC		RC1E4	**8931.5**	RM1E4	**8931.2**	RC2E4	**8955.5**	RM2E4	**8955.2**
24V DC		RC1G4	**8941.5**	RM1G4	**8941.2**	RC2G4	**8956.5**	RM2G4	**8956.2**
110V AC		RC1U4	**8942.5**	RM1U4	**8942.2**	RC2U4	**8957.5**	RM2U4	**8957.2**
220V AC		RC1X4	**8943.5**	RM1X4	**8943.2**	RC2X4	**8959.5**	RM2X4	**8959.2**
8 Channel, Coil Voltage	157 (6.18)								
12V DC		RC1E8	**8931.6**	RM1E8	**8931.3**	RC2E8	**8955.6**	RM2E8	**8955.3**
24V DC		RC1G8	**8941.6**	RM1G8	**8941.3**	RC2G8	**8956.6**	RM2G8	**8956.3**
110V AC		RC1U8	**8942.6**	RM1U8	**8942.3**	RC2U8	**8957.6**	RM2U8	**8957.3**
220V AC		RC1X8	**8943.6**	RM1X8	**8943.3**	RC2X8	**8959.6**	RM2X8	**8959.3**
16 Channel, Coil Voltage	311 (12.24)								
12V DC		RC1E16	**8932.5**	RM1E16	**8932.2**	RC2E16	**8963.5**	RM2E16	**8963.2**
24V DC		RC1G16	**8944.5**	RM1G16	**8944.2**	RC2G16	**8972.5**	RM2G16	**8972.2**
110V AC		RC1U16	**8946.5**	RM1U16	**8946.2**	RC2U16	**8995.5**	RM2U16	**8995.2**
220V AC		RC1X16	**8948.5**	RM1X16	**8948.2**	RC2X16	**8999.5**	RM2X16	**8999.2**
		Std. Pk.: 1		**Std. Pk.: 1**		**Std. Pk.: 1**		**Std. Pk.: 1**	

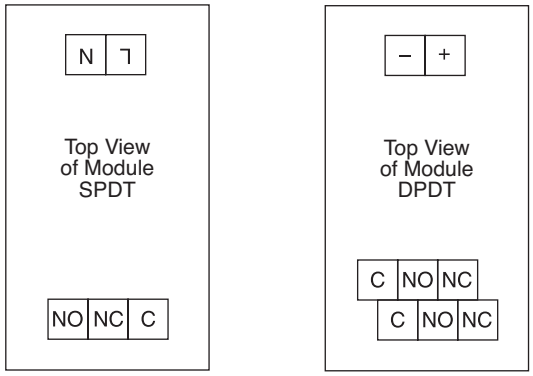
Relay Pinout



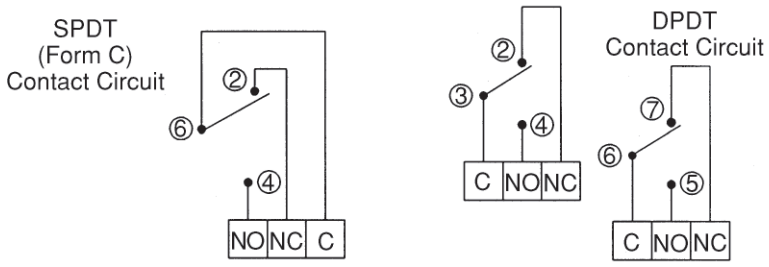
Bottom View, Relay Pinouts, Grid 2.54mm (0.1in.)

Coil Circuits





Contact Circuits



Contact Specifications

SPDT Composite Rating:	**10A**
-Relay Socket:	10A
-Terminal Blocks:	15A
-PCB Trace for Contact Circuit	
At 30°C (86°F) temperature rise NC:	12A
Common and NO:	16A
-PCB Trace for Coil Circuit:	6A
At 30°C (86°F) temperature rise	
-Relay Contacts, AgNi, Minimum Ratings:	
Resistive- At 250VAC and 30VDC:	10A
Inductive - At 250VAC :	7.5A
At 30VDC:	5A
(p.f = 0.4)	
-Rated Minimum Breaking Capacity:	
2,500 VA Resistive, 1,800 VA Inductive	

DPDT Composite Rating:	**2 x 8A**
-Relay Socket:	10A
-Terminal Blocks:	15A
-PCB Trace for Contact Circuit:	10A
At 30°C (86°F) temperature rise:	10A
-PCB Trace for Coil Circuit:	6A
At 30°C (86°F) temperature rise:	2A
-Relay Contacts, AgNi, Minimum Ratings:	
Resistive- At 250VAC and 30VDC:	2 x 8A
Rated at 250VAC	
Max. Breaking Voltage:	440VAC
"Make" Current:	12A
-Rated Minimum Breaking Capacity:	
2,000 VA Resistive	

Coil Specifications

-Ambient Temperatures:
40°to +70°C (-40°to +158°F)

Coil Voltage VDC	Operate (pull-in) Max. VDC	Drop Out (Rel.) V Min. VDC	Coil Current mA	Coil Resistance olms
12	18	8.8	55	220±15%
24	42	17.5	20	1,200±15%
110	132	96.0	8.9	9,000±15%
220	264	192.0	4.1	31,500±15%

Table values are for cold coil at 20°C (68°F) and exclude coil exterior circuit.