

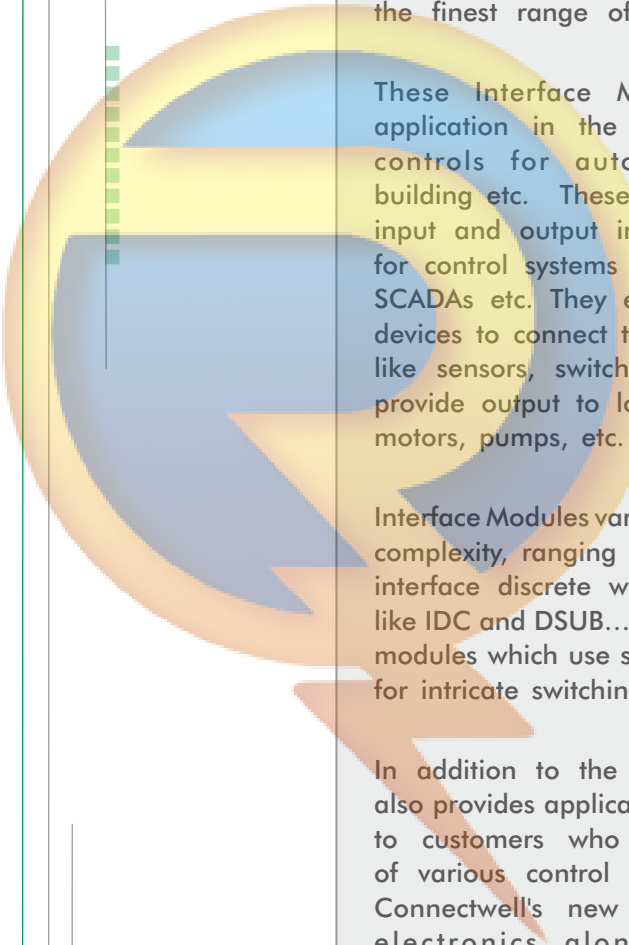
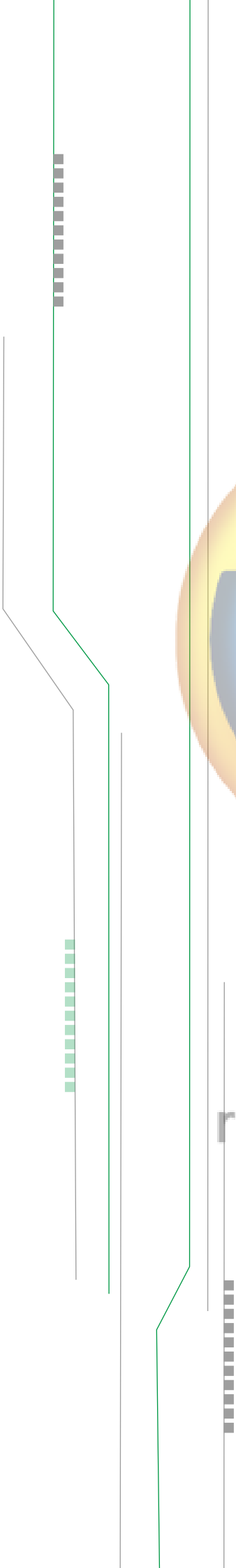
CATALOGUE 13-14

# INTERFACE MODULES



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**connectwell**  
THE RIGHT CONNECTION



Since its inception in 1978, Connectwell has undergone constant evolution... be it infrastructure, systems or its qualified personnel. An unrelenting dedication to offer the best has been the impetus behind making Connectwell an established manufacturer of superior Terminal Blocks. Today, Connectwell takes immense pride in bringing you the finest range of Interface Modules.

These Interface Modules find their application in the fields of industrial controls for automation, machine building etc. These Modules act as the input and output interfaces / adapters for control systems which involve PLCs, SCADAs etc. They enable these control devices to connect to field input devices like sensors, switches, timers etc. and provide output to loads like contactors, motors, pumps, etc.

Interface Modules vary in the levels of their complexity, ranging from modules which interface discrete wires with connectors like IDC and DSUB... to more complicated modules which use solid state technology for intricate switching functions.

In addition to the above, Connectwell also provides application specific modules to customers who require integration of various control system components. Connectwell's new found strength of electronics along with superior understanding of electro mechanical components ensures the right solution for your needs.

With components which carry international approvals and an excellent quality program, you can be assured of the reliability you have come to expect of Connectwell.

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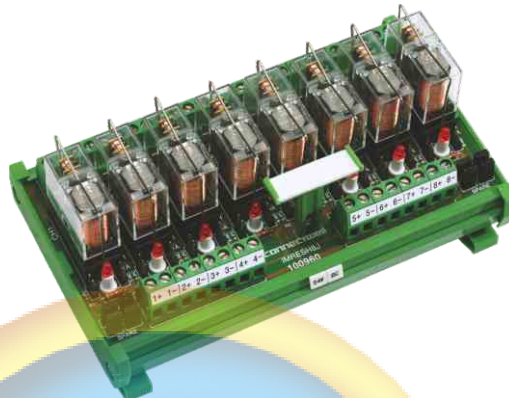
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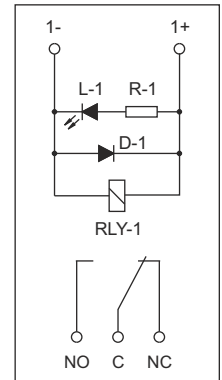
# 1 CO RELAY MODULES (SPDT)

## FEATURES

- Variety of Operating Voltages.
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- Possibility of Bussing (Jumpering) relays in common negative or common positive configurations.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



## Circuit Diagram



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## TECHNICAL INFORMATION

GENERAL DATA		RELAY DATA				
Number of Channels	1    2    4    8    16	Relay Make / Series	OMRON/G2R-1 (Relays other than OMRON make are available on request.)			
Width (mm)	88    88    88    88    88	Contact Type	1CO (SPDT)			
Height (mm)	74    74    74    74    74	Relay Approvals				
Length (mm)*	23    45    79    148    289	<b>RELAY COIL DATA</b>				
Channels other than specified are available on request		Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Positive Bussing Possibility	By using spare jumpers.	Coil Resistance (ohms)	275	1100	4600	26850
Negative Bussing Possibility	By using spare jumpers.	Rated Coil Current (mA)	43.6	21.8	11.0	4.7
Power ON Indication	3 mm Red LED	Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage	
Relay Protection	Using 1N4007 Freewheeling Diode.	Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage	
Ambient Temperature (Operation)	-20° C ... 50° C	Max. Voltage	110% max. of rated voltage			
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**	Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.			
Housing Insulation Material	PVC / V0 Grade	<b>RELAY CONTACT DATA</b>				
Housing Colour	Green	Contact Material	AgCdO			
<b>CONNECTION DATA</b>		Rated Current	10A @230 VAC; 10A @30 VDC			
Type of Connection	Screw Connection	Max. Switching Voltage	380 VAC, 125 VDC			
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG	Max. Mechanical	18,000 operations/hr			
Stripping Length	8.3 mm	Operating Frequency				
Torque	4.5 lb-in / 0.5 Nm	Max. Electrical	1,800 operations/hr (under rated load)			
		Operating Frequency				
		Mechanical Life expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil			
		Electrical Life expectancy	100,000 operations min. (at max. operation frequency and max. load current)			

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

## ORDERING INFORMATION

**12 VDC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/12/OM	IMRE1S1/12/OM
2	IMRE1SS2/12/OM	IMRE1S2/12/OM
4	IMRE1SS4/12/OM	IMRE1S4/12/OM
8	IMRE1SS8/12/OM	IMRE1S8/12/OM
16	IMRE1SS16/12/OM	IMRE1S16/12/OM

**24 VDC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/24/OM	IMRE1S1/24/OM
2	IMRE1SS2/24/OM	IMRE1S2/24/OM
4	IMRE1SS4/24/OM	IMRE1S4/24/OM
8	IMRE1SS8/24/OM	IMRE1S8/24/OM
16	IMRE1SS16/24/OM	IMRE1S16/24/OM

**110 VAC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/110A/OM	IMRE1S1/110A/OM
2	IMRE1SS2/110A/OM	IMRE1S2/110A/OM
4	IMRE1SS4/110A/OM	IMRE1S4/110A/OM
8	IMRE1SS8/110A/OM	IMRE1S8/110A/OM
16	IMRE1SS16/110A/OM	IMRE1S16/110A/OM

**230 VAC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/230A/OM	IMRE1S1/230A/OM
2	IMRE1SS2/230A/OM	IMRE1S2/230A/OM
4	IMRE1SS4/230A/OM	IMRE1S4/230A/OM
8	IMRE1SS8/230A/OM	IMRE1S8/230A/OM
16	IMRE1SS16/230A/OM	IMRE1S16/230A/OM

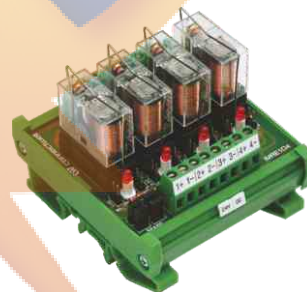
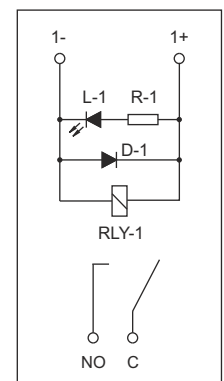
Note : For Spring Cage terminals please add /SC after each part code.

## 1 NO RELAY MODULES (SPST)

Relay Modules with only 1 NO (SPST) contacts are available on request.

**GENERAL DATA**

Relay Make / Series	G2R-A1
Contact Type	1 NO
Output Current	10 A
Output Voltage	230 VAC, 30 VDC

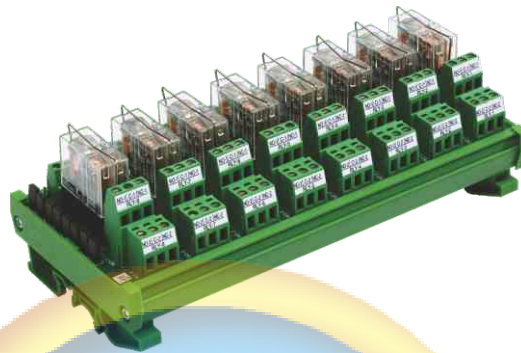
**Circuit Diagram**

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# 2 CO RELAY MODULES (DPDT)

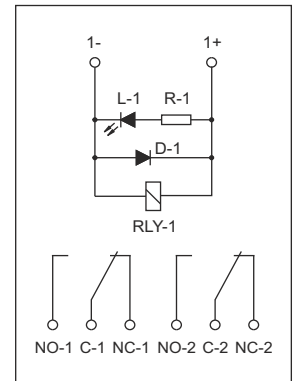
## FEATURES

- Variety of Operating Voltages.
- Switching Current upto 5 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- Possibility of Bussing (Jumpering) relays in common negative or common positive configurations.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## Circuit Diagram



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	88	88	88	88	88
Height (mm)	74	74	74	74	74
Length (mm)*	31	55	100	193	377

Channels other than specified are available on request

Positive Bussing Possibility	By using spare jumpers.
Negative Bussing Possibility	By using spare jumpers.
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-2 (Relays other than OMRON make are available on request.)
Contact Type	2CO (DPDT)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance (ohms)	275	1100	4600	26850
Rated Coil Current (mA)	43.6	21.8	11.0	4.7
Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage	
Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage			
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.			

### RELAY CONTACT DATA

Contact Material	AgCdO
Rated Current	5A @230 VAC; 5A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

**ORDERING INFORMATION**

**12 VDC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/12/OM	IMRE2S1/12/OM
2	IMRE2SS2/12/OM	IMRE2S2/12/OM
4	IMRE2SS4/12/OM	IMRE2S4/12/OM
8	IMRE2SS8/12/OM	IMRE2S8/12/OM
16	IMRE2SS16/12/OM	IMRE2S16/12/OM

**24 VDC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/24/OM	IMRE2S1/24/OM
2	IMRE2SS2/24/OM	IMRE2S2/24/OM
4	IMRE2SS4/24/OM	IMRE2S4/24/OM
8	IMRE2SS8/24/OM	IMRE2S8/24/OM
16	IMRE2SS16/24/OM	IMRE2S16/24/OM

**110 VAC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/110A/OM	IMRE2S1/110A/OM
2	IMRE2SS2/110A/OM	IMRE2S2/110A/OM
4	IMRE2SS4/110A/OM	IMRE2S4/110A/OM
8	IMRE2SS8/110A/OM	IMRE2S8/110A/OM
16	IMRE2SS16/110A/OM	IMRE2S16/110A/OM

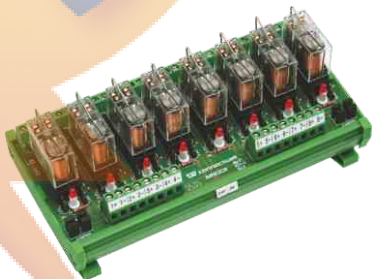
**230 VAC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/230A/OM	IMRE2S1/230A/OM
2	IMRE2SS2/230A/OM	IMRE2S2/230A/OM
4	IMRE2SS4/230A/OM	IMRE2S4/230A/OM
8	IMRE2SS8/230A/OM	IMRE2S8/230A/OM
16	IMRE2SS16/230A/OM	IMRE2S16/230A/OM

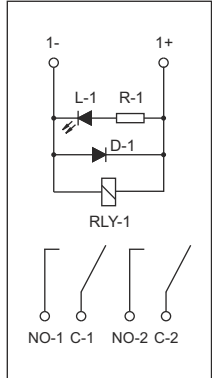
**2 NO RELAY MODULES (DPST)**

Relay Modules with only 2 NO (DPST) contacts are available on request.

GENERAL DATA	
Relay Make / Series	G2R-A2
Contact Type	2 NO
Output Current	5 A
Output Voltage	230 VAC, 30 VDC



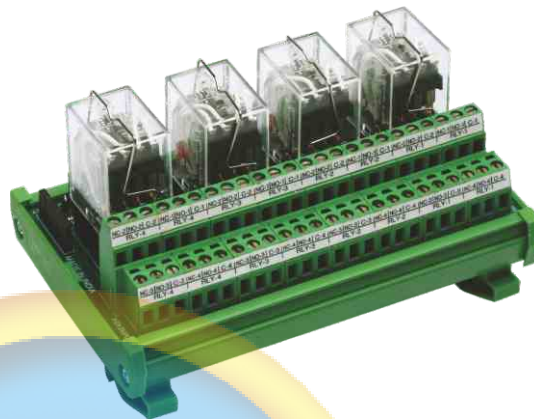
Circuit Diagram



# 4 CO RELAY MODULES

## FEATURES

- Variety of Operating Voltages.
- Switching Current upto 5 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- Possibility of Bussing (Jumpering) relays in common negative or common positive configurations.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8
Width (mm)	88	88	88	88
Height (mm)	74	74	74	74
Length (mm)*	40	71	137	257

Channels other than specified are available on request

Positive Bussing Possibility	By using spare jumpers.
Negative Bussing Possibility	By using spare jumpers.
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/MY4 (Relays other than OMRON make are available on request.)
Contact Type	4CO (4 Poles - Double Throw)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	24 VDC	110 VAC	230 VAC
Coil Resistance (ohms)	275	4600	26850
Rated Coil Current (mA)	43.6	11.0	4.7
Must Operate Voltage	80% max. of rated voltage	80% max. of rated voltage	
Must Release Voltage	10% max. of rated voltage	30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage		

### RELAY CONTACT DATA

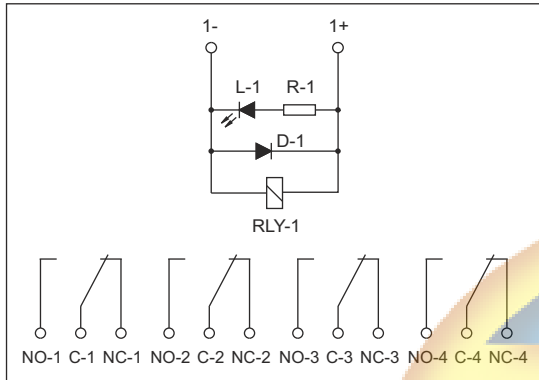
Contact Material	AgCdO
Rated Current	5A @230 VAC; 5A @30 VDC
Max. Switching Voltage	250 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	100,000,000 operations min. for DC coil & 50,000,000 operations min. for AC coil
Electrical Life Expectancy	200,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.



Circuit Diagram



ORDERING INFORMATION

**24 VDC - 4 CO Relay modules**

# of Channels	With Pluggable Relays
1	IMRE4SS1/24/OM
2	IMRE4SS2/24/OM
4	IMRE4SS4/24/OM
8	IMRE4SS8/24/OM

**110 VAC - 4 CO Relay modules**

# of Channels	With Pluggable Relays
1	IMRE4SS1/110A/OM
2	IMRE4SS2/110A/OM
4	IMRE4SS4/110A/OM
8	IMRE4SS8/110A/OM

**230 VAC - 4 CO Relay modules**

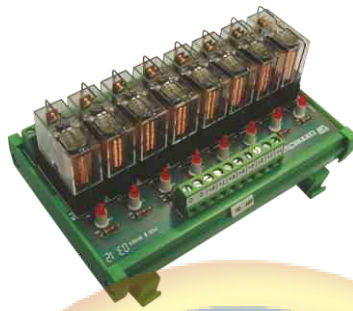
# of Channels	With Pluggable Relays
1	IMRE4SS1/230A/OM
2	IMRE4SS2/230A/OM
4	IMRE4SS4/230A/OM
8	IMRE4SS8/230A/OM

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# 1 CO COMMON NEGATIVE RELAY MODULES (SPDT)

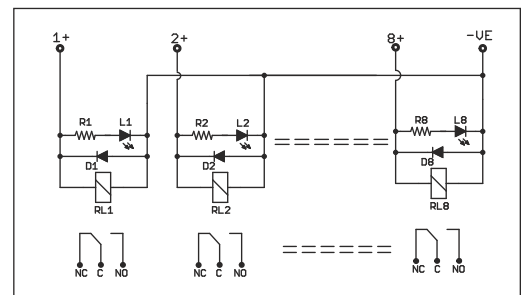
## FEATURES

- Negative common with the help of single terminal.
- Variety of Operating Voltages.
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

Circuit Diagram



## TECHNICAL INFORMATION

GENERAL DATA					RELAY DATA						
Number of Channels	2	4	8	16	Relay Make / Series	OMRON/G2R-1 (Relays other than OMRON make are available on request.)					
Width (mm)	88	88	88	88	Contact Type	1CO (SPDT)					
Height (mm)	74	74	74	74	Relay Approvals						
Length (mm)*	38	69	130	253	<b>RELAY COIL DATA</b>						
Channels other than specified are available on request					Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC		
Positive Bussing Possibility	-				Coil Resistance (ohms)	275	1100	4600	26850		
Negative Bussing Possibility	Internal				Rated Coil Current (mA)	43.6	21.8	11.0	4.7		
Power ON Indication	3 mm Red LED				Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage			
Relay Protection	Using 1N4007 Freewheeling Diode.				Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage			
Ambient Temperature (Operation)	-20° C ... 50° C				Max. Voltage	110% max. of rated voltage					
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**				Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.					
Housing Insulation Material	PVC / V0 Grade				<b>RELAY CONTACT DATA</b>						
Housing Colour	Green				Contact Material	AgCdO					
<b>CONNECTION DATA</b>					Rated Current	10A @230 VAC; 10A @30 VDC					
Type of Connection	Screw Connection				Max. Switching Voltage	380 VAC, 125 VDC					
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG				Max. Mechanical	18,000 operations/hr					
Stripping Length	8.3 mm				Operating Frequency						
Torque	4.5 lb-in / 0.5 Nm				Max. Electrical	1,800 operations/hr (under rated load)					
					Operating Frequency						
					Mechanical Life expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil					
					Electrical Life expectancy	100,000 operations min. (at max. operation frequency and max. load current)					

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

**ORDERING INFORMATION**

**12 VDC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/12/OM/N	IMRE1S1/12/OM/N
2	IMRE1SS2/12/OM/N	IMRE1S2/12/OM/N
4	IMRE1SS4/12/OM/N	IMRE1S4/12/OM/N
8	IMRE1SS8/12/OM/N	IMRE1S8/12/OM/N
16	IMRE1SS16/12/OM/N	IMRE1S16/12/OM/N

**24 VDC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/24/OM/N	IMRE1S1/24/OM/N
2	IMRE1SS2/24/OM/N	IMRE1S2/24/OM/N
4	IMRE1SS4/24/OM/N	IMRE1S4/24/OM/N
8	IMRE1SS8/24/OM/N	IMRE1S8/24/OM/N
16	IMRE1SS16/24/OM/N	IMRE1S16/24/OM/N

**110 VAC - 1 CO (SPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/110A/OM/N	IMRE1S1/110A/OM/N
2	IMRE1SS2/110A/OM/N	IMRE1S2/110A/OM/N
4	IMRE1SS4/110A/OM/N	IMRE1S4/110A/OM/N
8	IMRE1SS8/110A/OM/N	IMRE1S8/110A/OM/N
16	IMRE1SS16/110A/OM/N	IMRE1S16/110A/OM/N

**230 VAC - 1 CO (SPDT) Relay modules**

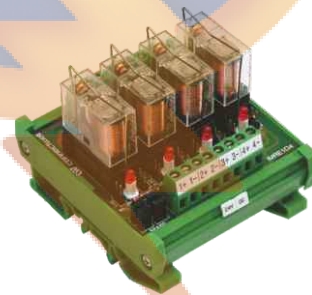
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/230A/OM/N	IMRE1S1/230A/OM/N
2	IMRE1SS2/230A/OM/N	IMRE1S2/230A/OM/N
4	IMRE1SS4/230A/OM/N	IMRE1S4/230A/OM/N
8	IMRE1SS8/230A/OM/N	IMRE1S8/230A/OM/N
16	IMRE1SS16/230A/OM/N	IMRE1S16/230A/OM/N

**1 NO COMMON NEGATIVE RELAY MODULES (SPST)**

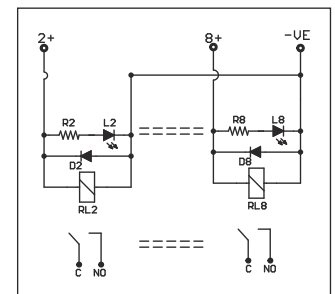
Relay Modules with only 1 NO (SPST) contacts are available on request.

**GENERAL DATA**

Relay Make / Series	G2R-A1
Contact Type	1 NO
Output Current	10 A
Output Voltage	230 VAC, 30 VDC



Circuit Diagram



# 2 CO COMMON NEGATIVE RELAY MODULES (DPDT)

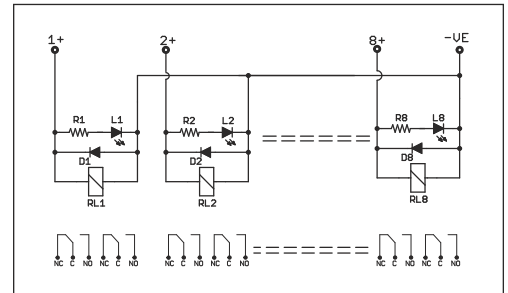
## FEATURES

- Negative common with the help of single terminal.
- Variety of Operating Voltages.
- Switching Current upto 5 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

Circuit Diagram



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	2	4	8	16
Width (mm)	88	88	88	88
Height (mm)	74	74	74	74
Length (mm)*	41	75	130	253

Channels other than specified are available on request

Positive Bussing Possibility	By using spare jumpers.
Negative Bussing Possibility	By using spare jumpers.
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-2 (Relays other than OMRON make are available on request.)
Contact Type	2CO (DPDT)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance (ohms)	275	1100	4600	26850
Rated Coil Current (mA)	43.6	21.8	11.0	4.7
Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage	
Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage			
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.			

### RELAY CONTACT DATA

Contact Material	AgCdO
Rated Current	5A @230 VAC; 5A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

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**ORDERING INFORMATION**

**12 VDC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/12/OM/N	IMRE2S1/12/OM/N
2	IMRE2SS2/12/OM/N	IMRE2S2/12/OM/N
4	IMRE2SS4/12/OM/N	IMRE2S4/12/OM/N
8	IMRE2SS8/12/OM/N	IMRE2S8/12/OM/N
16	IMRE2SS16/12/OM/N	IMRE2S16/12/OM/N

**24 VDC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/24/OM/N	IMRE2S1/24/OM/N
2	IMRE2SS2/24/OM/N	IMRE2S2/24/OM/N
4	IMRE2SS4/24/OM/N	IMRE2S4/24/OM/N
8	IMRE2SS8/24/OM/N	IMRE2S8/24/OM/N
16	IMRE2SS16/24/OM/N	IMRE2S16/24/OM/N

**110 VAC - 2 CO (DPDT) Relay modules**

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/110A/OM/N	IMRE2S1/110A/OM/N
2	IMRE2SS2/110A/OM/N	IMRE2S2/110A/OM/N
4	IMRE2SS4/110A/OM/N	IMRE2S4/110A/OM/N
8	IMRE2SS8/110A/OM/N	IMRE2S8/110A/OM/N
16	IMRE2SS16/110A/OM/N	IMRE2S16/110A/OM/N

**230 VAC - 2 CO (DPDT) Relay modules**

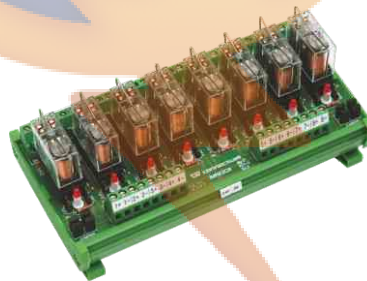
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/230A/OM/N	IMRE2S1/230A/OM/N
2	IMRE2SS2/230A/OM/N	IMRE2S2/230A/OM/N
4	IMRE2SS4/230A/OM/N	IMRE2S4/230A/OM/N
8	IMRE2SS8/230A/OM/N	IMRE2S8/230A/OM/N
16	IMRE2SS16/230A/OM/N	IMRE2S16/230A/OM/N

**2 NO COMMON NEGATIVE RELAY MODULES (DPST)**

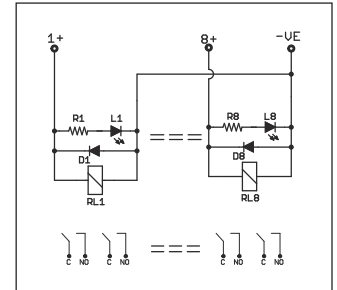
Relay Modules with only 2 NO (DPST) contacts are available on request.

**GENERAL DATA**

Relay Make / Series	G2R-A2
Contact Type	2 NO
Output Current	5 A
Output Voltage	230 VAC, 30 VDC



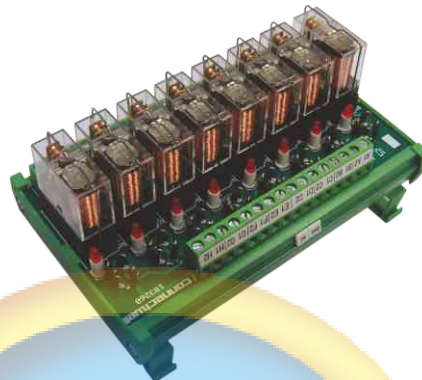
Circuit Diagram



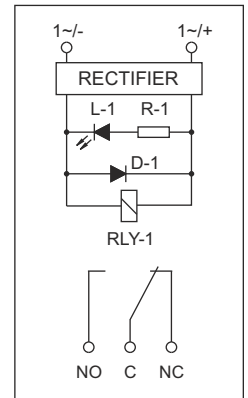
# 1 CO RELAY MODULES 24V AC/DC (SPDT)

## FEATURES

- Works on both 24 VAC as well as 24 VDC
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



## Circuit Diagram



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## TECHNICAL INFORMATION

GENERAL DATA						RELAY DATA	
Number of Channels	1	2	4	8	16	Relay Make / Series	OMRON/G2R-1
Width (mm)	88	88	88	88	88	Contact Type	1CO (SPDT)
Height (mm)	74	74	74	74	74	Relay Approvals	
Length (mm)*	23	36	72	138	270	Relay Coil Data	
Channels other than specified are available on request						Rated Coil Voltage	24 VDC
Positive Bussing Possibility	-					Coil Resistance (ohms)	1100
Negative Bussing Possibility	-					Rated Coil Current (mA)	21.8
Power ON Indication	3 mm Red LED					Must Operate Voltage	70% max. of rated voltage
Relay Protection	Using 1N4007 Freewheeling Diode.					Must Release Voltage	15% max. of rated voltage
Ambient Temperature (Operation)	-20° C ... 50° C					Max. Voltage	110% max. of rated voltage
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**					Relay Contact Data	
Housing Insulation Material	PVC / V0 Grade					Contact Material	AgCdO
Housing Colour	Green					Rated Current	10A @230 VAC; 10A @30 VDC
CONNECTION DATA						Max. Switching Voltage	380 VAC, 125 VDC
Type of Connection	Screw Connection					Max. Mechanical	18,000 operations/hr
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG					Operating Frequency	
Stripping Length	8.3 mm					Max. Electrical	1,800 operations/hr (under rated load)
Torque	4.5 lb-in / 0.5 Nm					Operating Frequency	
						Mechanical Life expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
						Electrical Life expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

## ORDERING INFORMATION

## 24 VDC - 1 CO (SPDT) Relay modules

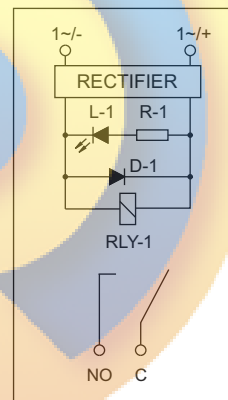
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/24A/RECT	IMRE1S1/24A/RECT
2	IMRE1SS2/24A/RECT	IMRE1S2/24A/RECT
4	IMRE1SS4/24A/RECT	IMRE1S4/24A/RECT
8	IMRE1SS8/24A/RECT	IMRE1S8/24A/RECT
16	IMRE1SS16/24A/RECT	IMRE1S16/24A/RECT

## 1 NO RELAY MODULES 24V AC/DC

Relay Modules with only 1 NO (SPST) contacts are available on request.

GENERAL DATA	
Relay Make / Series	G2R-A1
Contact Type	1 NO
Output Current	10 A
Output Voltage	230 VAC, 30 VDC

Circuit Diagram

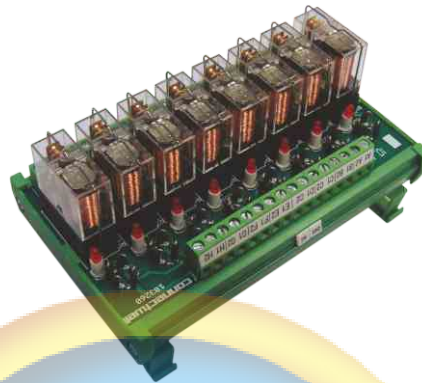


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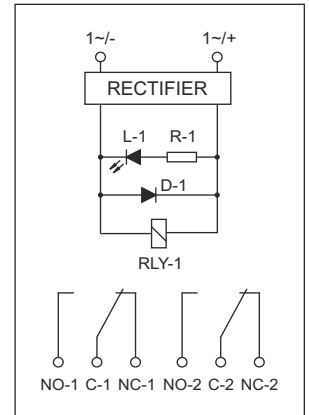
# 2 CO RELAY MODULES 24V AC/DC (DPDT)

## FEATURES

- Works on both 24 VAC as well as 24 VDC
- Switching Current upto 5 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



## Circuit Diagram



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	88	88	88	88	88
Height (mm)	74	74	74	74	74
Length (mm)*	38	45	81	160	315

Channels other than specified are available on request

Positive Bussing Possibility	-
Negative Bussing Possibility	-
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-2 (Relays other than OMRON make are available on request.)
Contact Type	2CO (DPDT)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	24 VDC
Coil Resistance (ohms)	1100
Rated Coil Current (mA)	21.8
Must Operate Voltage	70% max. of rated voltage
Must Release Voltage	15% max. of rated voltage
Max. Voltage	110% max. of rated voltage

### RELAY CONTACT DATA

Contact Material	AgCdO
Rated Current	5A @230 VAC; 5A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

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## ORDERING INFORMATION

## 24 VDC - 2 CO (DPDT) Relay modules

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/24A/RECT	IMRE2S1/24A/RECT
2	IMRE2SS2/24A/RECT	IMRE2S2/24A/RECT
4	IMRE2SS4/24A/RECT	IMRE2S4/24A/RECT
8	IMRE2SS8/24A/RECT	IMRE2S8/24A/RECT
16	IMRE2SS16/24A/RECT	IMRE2S16/24A/RECT

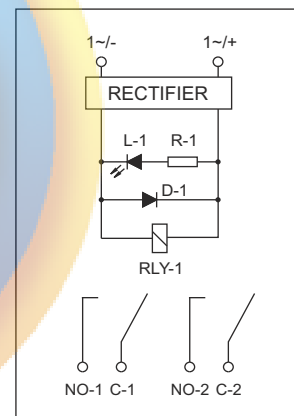
## 2 NO RELAY MODULES 24V AC/DC (DPDT)

Relay Modules with only 2 NO (DPST) contacts are available on request.

## GENERAL DATA

Relay Make / Series	G2R-A2
Contact Type	2 NO
Output Current	5 A
Output Voltage	230 VAC, 30 VDC

Circuit Diagram

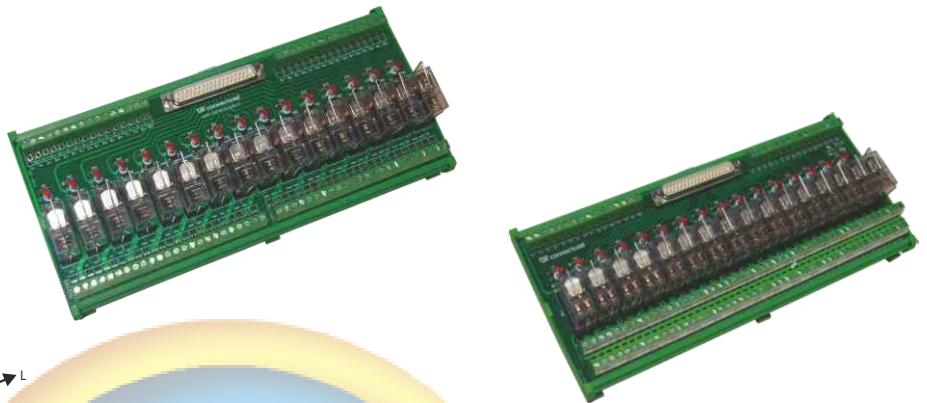


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# 1 CO & 2 CO RELAY MODULES WITH DSUB INPUT

## FEATURES

- Option to give switching signal through male DSUB 37 connector or through screw terminals.
- Switching Current upto 10 A at 250 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



These modules offer the convenience of triggering / actuating the relays by connecting a DSUB Connector harness from the PLC / Controller to the input of the module. In these modules the DSUB Connector pins are so configured that all the relay inputs are positively bussed. As an alternate PCB Terminal Blocks are also provided to utilize discrete wiring methods where such DSUB Connector harnesses are not available.

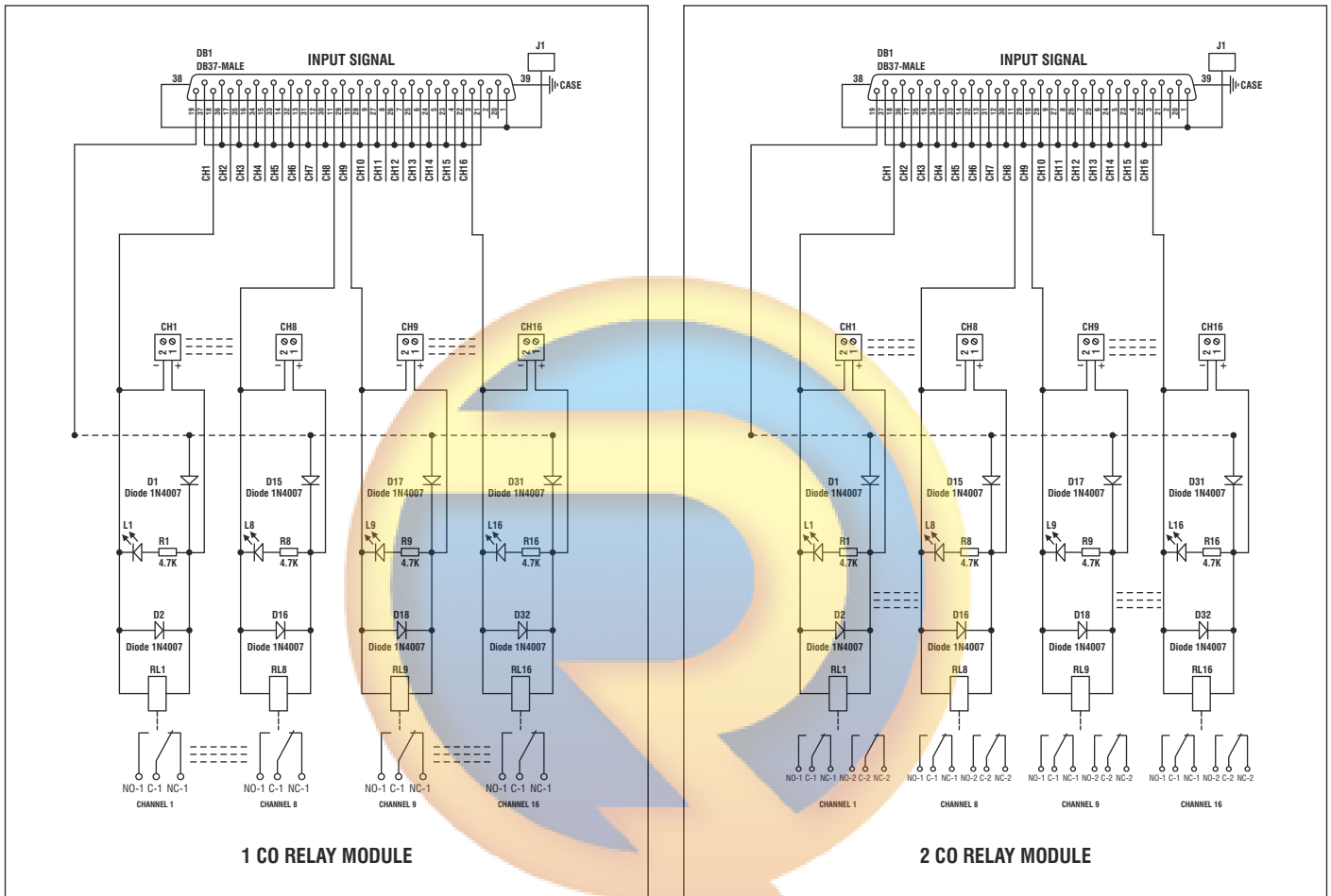
## TECHNICAL INFORMATION

GENERAL DATA		RELAY DATA	
Channels other than specified are available on request		(Relays other than OMRON are available on request.)	
Number of Channels	16	Relay Make / Series	OMRON/G2R-1      OMRON/G2R-2
Width W (mm)	120	Contact Type	1CO (SPDT)      2CO (DPDT)
Height H (mm)	74	Rated Current	10A @250 VAC;      5A @250 VAC; 10A @30 VDC      5A @30 VDC
Length L (mm)*	261	Relay Approvals	
Power ON Indication	3 mm Red LED	<b>RELAY COIL DATA</b>	Voltages other than 24 VDC are available on request.
Relay Protection	Using 1N4007 Freewheeling Diode.	Rated Coil Voltage	24 VDC
Ambient Temperature (Operation)	-20° C ... 60° C	Coil Resistance (ohms)	1100
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**	Rated Coil Current (mA)	21.8
Housing Insulation Material	PVC / V0 Grade	Must Operate Voltage	70% max. of Rated Voltage
Housing Colour	Green	Must Release Voltage	15% max. of Rated Voltage
		Max. Voltage	110% of Rated Voltage
<b>CONNECTION DATA (SCREW TERMINAL)</b>		<b>RELAY CONTACT DATA</b>	
Type of Connection	Screw Connection	Contact Material	AgCdO
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG	Rated Current	10A @250 VAC; 10A @30 VDC
Stripping Length	8.3 mm	Max. Switching Voltage	380 VAC, 125 VDC
Torque	4.5 lb-in / 0.5 Nm	Max. Mechanical	18,000 operations/hr
		Operating Frequency	1,800 operations/hr (under rated load)
		Max. Electrical	200,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
		Operating Frequency	100,000 operations min. (at max. operation frequency and max. load current)
		Mechanical Life expectancy	
		Electrical Life expectancy	
<b>DSUB CONNECTOR ELECTRICAL RATINGS</b>			
Contact Resistance	15 m ohm maximum at 500 VDC		
Current Rating	3A Max		
Operation Voltage	250 VAC		
Dielectric Withstanding Voltage	1000 VAC for one minute		
Number of Contacts	37 (This varies based on no. of channels)		
<b>DSUB CONNECTOR MATERIALS</b>			
Insulator	PBT, Rated UL94V-0		
Contacts	Brass		
Shell	Steel		
Rivet, Boardlock	Copper Alloy		

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

Circuit Diagrams



ORDERING INFORMATION

1 CO (SPDT) Relay modules		2 CO (DPDT) Relay modules	
# of Channels	With Pluggable Relays	# of Channels	With Pluggable Relays
16	IMRE1SS16/24/DM37	16	IMRE2SS16/24/DM37

D-SUB PIN ASSIGNMENT			
CHANNEL	DB1	1 CO FIELD TERMINAL (SPDT RELAY)	2 CO FIELD TERMINAL (DPDT RELAY)
CH1	18	1NO 1NC 1C	1NO-1 1NC-1 1C-1 1NO-2 1NC-2 1C-2
CH2	17	2NO 2NC 2C	2NO-1 2NC-1 2C-1 2NO-2 2NC-2 2C-2
CH3	16	3NO 3NC 3C	3NO-1 3NC-1 3C-1 3NO-2 3NC-2 3C-2
CH4	15	4NO 4NC 4C	4NO-1 4NC-1 4C-1 4NO-2 4NC-2 4C-2
CH5	14	5NO 5NC 5C	5NO-1 5NC-1 5C-1 5NO-2 5NC-2 5C-2
CH6	13	6NO 6NC 6C	6NO-1 6NC-1 6C-1 6NO-2 6NC-2 6C-2
CH7	12	7NO 7NC 7C	7NO-1 7NC-1 7C-1 7NO-2 7NC-2 7C-2
CH8	11	8NO 8NC 8C	8NO-1 8NC-1 8C-1 8NO-2 8NC-2 8C-2

D-SUB PIN ASSIGNMENT			
CHANNEL	DB1	1 CO FIELD TERMINAL (SPDT RELAY)	2 CO FIELD TERMINAL (DPDT RELAY)
CH9	10	9NO 9NC 9C	9NO-1 9NC-1 9C-1 9NO-2 9NC-2 9C-2
CH10	9	10NO 10NC 10C	10NO-1 10NC-1 10C-1 10NO-2 10NC-2 10C-2
CH11	8	11NO 11NC 11C	11NO-1 11NC-1 11C-1 11NO-2 11NC-2 11C-2
CH12	7	12NO 12NC 12C	12NO-1 12NC-1 12C-1 12NO-2 12NC-2 12C-2
CH13	6	13NO 13NC 13C	13NO-1 13NC-1 13C-1 13NO-2 13NC-2 13C-2
CH14	5	14NO 14NC 14C	14NO-1 14NC-1 14C-1 14NO-2 14NC-2 14C-2
CH15	4	15NO 15NC 15C	15NO-1 15NC-1 15C-1 15NO-2 15NC-2 15C-2
CH16	3	16NO 16NC 16C	16NO-1 16NC-1 16C-1 16NO-2 16NC-2 16C-2

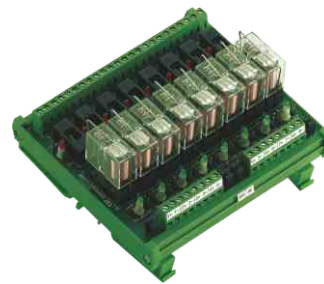
DB1\_21~37 SHORT, DB1\_19:24 VOLT DB1\_2 & 20: BLANK, DB1\_1, 38 & 39: SHIELD

# 1 CO & 2 CO FUSED RELAY MODULES

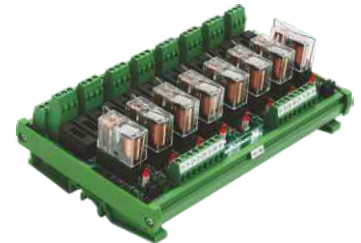
FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

## FEATURES

- Replaceable fuses with simple to operate Horizontal fuse holders
- Fast Blow & Slow Blow fuses available as standard
- Fuse ratings from 0.1 A to 6.3 A available.
- Variety of Operating Voltages.
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- Possibility of Bussing (Jumpering) relays in common negative or common positive configurations.
- Relay Coil Protection by means of a Freewheeling Diode.
- Green LED Indication to denote relay actuation.
- Red LED Indication to denote fuse fail indication.
- Mounting Options available:  
DIN Rail mounting & Panel mounting.



MODULE WITH FUSE FAIL INDICATION



MODULE WITH FUSE AT OUTPUT

Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays. This module additionally protects the device from short circuit / over current with the help of fuse. It further provides the fuse fail indication.

## TECHNICAL INFORMATION

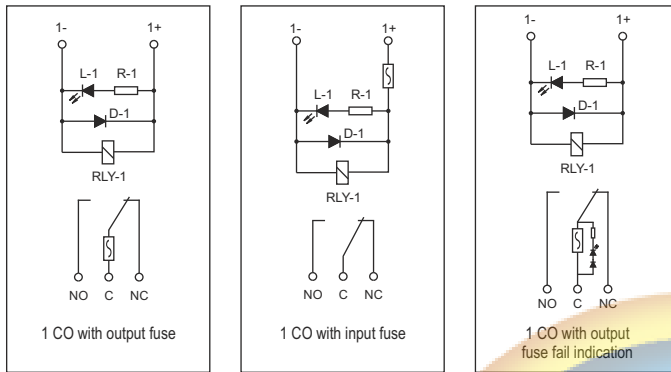
GENERAL DATA						RELAY DATA (Relays other than OMRON are available on request.)				
Number of Channels	1	2	4	8	16	Relay Make / Series	OMRON/G2R-1	OMRON/G2R-2		
Width (mm)	120	120	120	120	120	Contact Type	1CO (SPDT)	2CO (DPDT)		
Height (mm)	74	74	74	74	74	Rated Current	10A @230 VAC; 10A @30 VDC	5A @230 VAC; 5A @30 VDC		
Length L(mm)*						Relay Approvals				
1 C/O Fuse at Output	23	39	69	130	219	RELAY COIL DATA				
2 C/O Fuse at Output	26	52	102	190	312	Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
1 C/O Fuse at Input	23	39	69	130	219	Coil Resistance (ohms)	275	1100	4600	26850
2 C/O Fuse at Input	23	39	69	130	219	Rated Coil Current (mA)	43.6	21.8	11.0	4.7
Positive Bussing Possibility	By using spare jumpers.					Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage	
Negative Bussing Possibility	By using spare jumpers.					Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage	
Power ON Indication	3 mm Red LED					Max. Voltage	110% max. of rated voltage			
Fuse Fail Indication Relay Module	Green LED for Input, Red LED for Output					Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.			
Fuse Fail Indication Voltage	24 VAC/DC, 110 VAC/DC, 230 VAC/DC					RELAY CONTACT DATA				
Relay Protection	Using 1N4007 Freewheeling Diode.					Contact Material	AgCdO			
Ambient Temperature (Operation)	-20° C ... 50° C					Max. Switching Voltage	380 VAC, 125 VDC			
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**					Max. Mechanical	18,000 operations/hr			
Housing Insulation Material	PVC / V0 Grade					Operating Frequency	1,800 operations/hr (under rated load)			
Housing Colour	Green					Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil			
CONNECTION DATA						Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)			
Type of Connection	Screw Connection									
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG									
Stripping Length	8.3 mm									
Torque	4.5 lb-in / 0.5 Nm									

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

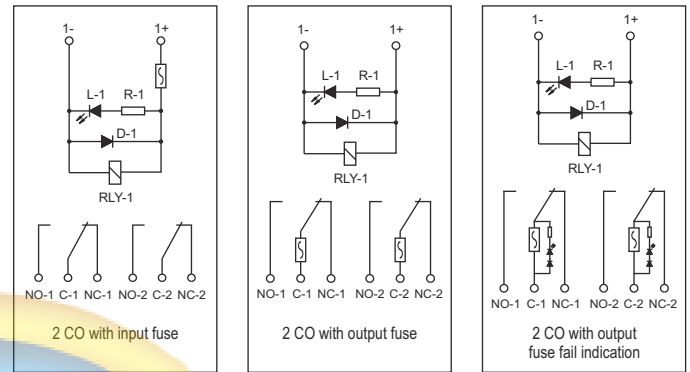
\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

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1 CO Circuit Diagrams



2 CO Circuit Diagrams



FUSE HOLDER DATA	Cap Design	Flat
	Fuse Link Size	5 x 20 mm
	Mounting Style	Horizontal
	Rated Current	6.3 A

FUSE DATA	Fuse Size	5 x 20 mm
	Fuse Type	Fast Blow/Slow Blow
	Fuse Ratings (A)	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3

ORDERING INFORMATION

1 CO FUSED RELAY MODULES

12 VDC COIL VOLTAGE

	# of Channels	With Pluggable Relays	With Soldered Relays
<b>With Fuse at Output</b>	1	IMRE1SSF1/12/OM	IMRE1SF1/12/OM
	2	IMRE1SSF2/12/OM	IMRE1SF2/12/OM
	4	IMRE1SSF4/12/OM	IMRE1SF4/12/OM
	8	IMRE1SSF8/12/OM	IMRE1SF8/12/OM
	16	IMRE1SSF16/12/OM	IMRE1SF16/12/OM
<b>With Fuse at Input</b>	1	IMREF1SS1/12/OM	IMREF1S1/12/OM
	2	IMREF1SS2/12/OM	IMREF1S2/12/OM
	4	IMREF1SS4/12/OM	IMREF1S4/12/OM
	8	IMREF1SS8/12/OM	IMREF1S8/12/OM
	16	IMREF1SS16/12/OM	IMREF1S16/12/OM
<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE1SSF1/12/1	IMRE1SF1/12/1
	2	IMRE1SSF2/12/1	IMRE1SF2/12/1
	4	IMRE1SSF4/12/1	IMRE1SF4/12/1
	8	IMRE1SSF8/12/1	IMRE1SF8/12/1
	16	IMRE1SSF16/12/1	IMRE1SF16/12/1
<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE1SSF1/12/2	IMRE1SF1/12/2
	2	IMRE1SSF2/12/2	IMRE1SF2/12/2
	4	IMRE1SSF4/12/2	IMRE1SF4/12/2
	8	IMRE1SSF8/12/2	IMRE1SF8/12/2
	16	IMRE1SSF16/12/2	IMRE1SF16/12/2
<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE1SSF1/12/3	IMRE1SF1/12/3
	2	IMRE1SSF2/12/3	IMRE1SF2/12/3
	4	IMRE1SSF4/12/3	IMRE1SF4/12/3
	8	IMRE1SSF8/12/3	IMRE1SF8/12/3
	16	IMRE1SSF16/12/3	IMRE1SF16/12/3

24 VDC COIL VOLTAGE

	# of Channels	With Pluggable Relays	With Soldered Relays
<b>With Fuse at Output</b>	1	IMRE1SSF1/24/OM	IMRE1SF1/24/OM
	2	IMRE1SSF2/24/OM	IMRE1SF2/24/OM
	4	IMRE1SSF4/24/OM	IMRE1SF4/24/OM
	8	IMRE1SSF8/24/OM	IMRE1SF8/24/OM
	16	IMRE1SSF16/24/OM	IMRE1SF16/24/OM
<b>With Fuse at Input</b>	1	IMREF1SS1/24/OM	IMREF1S1/24/OM
	2	IMREF1SS2/24/OM	IMREF1S2/24/OM
	4	IMREF1SS4/24/OM	IMREF1S4/24/OM
	8	IMREF1SS8/24/OM	IMREF1S8/24/OM
	16	IMREF1SS16/24/OM	IMREF1S16/24/OM
<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE1SSF1/24/1	IMRE1SF1/24/1
	2	IMRE1SSF2/24/1	IMRE1SF2/24/1
	4	IMRE1SSF4/24/1	IMRE1SF4/24/1
	8	IMRE1SSF8/24/1	IMRE1SF8/24/1
	16	IMRE1SF16/24/1	IMRE1SF16/24/1
<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE1SSF1/24/2	IMRE1SF1/24/2
	2	IMRE1SSF2/24/2	IMRE1SF2/24/2
	4	IMRE1SSF4/24/2	IMRE1SF4/24/2
	8	IMRE1SSF8/24/2	IMRE1SF8/24/2
	16	IMRE1SSF16/24/2	IMRE1SF16/24/2
<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE1SSF1/24/3	IMRE1SF1/24/3
	2	IMRE1SSF2/24/3	IMRE1SF2/24/3
	4	IMRE1SSF4/24/3	IMRE1SF4/24/3
	8	IMRE1SSF8/24/3	IMRE1SF8/24/3
	16	IMRE1SSF16/24/3	IMRE1SF16/24/3

# 1 CO & 2 CO FUSED RELAY MODULES

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

## ORDERING INFORMATION

### 1 CO FUSED RELAY MODULES

110 VAC COIL VOLTAGE				230 VAC COIL VOLTAGE			
	# of Channels	With Pluggable Relays	With Soldered Relays		# of Channels	With Pluggable Relays	With Soldered Relays
<b>With Fuse at Output</b>	1	IMRE1SSF1/110A/OM	IMRE1SF1/110A/OM	<b>With Fuse at Output</b>	1	IMRE1SSF1/230A/OM	IMRE1SF1/230A/OM
	2	IMRE1SSF2/110A/OM	IMRE1SF2/110A/OM		2	IMRE1SSF2/230A/OM	IMRE1SF2/230A/OM
	4	IMRE1SSF4/110A/OM	IMRE1SF4/110A/OM		4	IMRE1SSF4/230A/OM	IMRE1SF4/230A/OM
	8	IMRE1SSF8/110A/OM	IMRE1SF8/110A/OM		8	IMRE1SSF8/230A/OM	IMRE1SF8/230A/OM
	16	IMRE1SSF16/110A/OM	IMRE1SF16/110A/OM		16	IMRE1SSF16/230A/OM	IMRE1SF16/230A/OM
<b>With Fuse at Input</b>	1	IMREF1SS1/110A/OM	IMREF1S1/110A/OM	<b>With Fuse at Input</b>	1	IMREF1SS1/230A/OM	IMREF1S1/230A/OM
	2	IMREF1SS2/110A/OM	IMREF1S2/110A/OM		2	IMREF1SS2/230A/OM	IMREF1S2/230A/OM
	4	IMREF1SS4/110A/OM	IMREF1S4/110A/OM		4	IMREF1SS4/230A/OM	IMREF1S4/230A/OM
	8	IMREF1SS8/110A/OM	IMREF1S8/110A/OM		8	IMREF1SS8/230A/OM	IMREF1S8/230A/OM
	16	IMREF1SS16/110A/OM	IMREF1S16/110A/OM		16	IMREF1SS16/230A/OM	IMREF1S16/230A/OM
<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE1SSFI1/110A/1	IMRE1SFI1/110A/1	<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE1SSFI1/230A/1	IMRE1SFI1/230A/1
	2	IMRE1SSFI2/110A/1	IMRE1SFI2/110A/1		2	IMRE1SSFI2/230A/1	IMRE1SFI2/230A/1
	4	IMRE1SSFI4/110A/1	IMRE1SFI4/110A/1		4	IMRE1SSFI4/230A/1	IMRE1SFI4/230A/1
	8	IMRE1SSFI8/110A/1	IMRE1SFI8/110A/1		8	IMRE1SSFI8/230A/1	IMRE1SFI8/230A/1
	16	IMRE1SSFI16/110A/1	IMRE1SFI16/110A/1		16	IMRE1SSFI16/230A/1	IMRE1SFI16/230A/1
<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE1SSFI1/110A/2	IMRE1SFI1/110A/2	<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE1SSFI1/230A/2	IMRE1SFI1/230A/2
	2	IMRE1SSFI2/110A/2	IMRE1SFI2/110A/2		2	IMRE1SSFI2/230A/2	IMRE1SFI2/230A/2
	4	IMRE1SSFI4/110A/2	IMRE1SFI4/110A/2		4	IMRE1SSFI4/230A/2	IMRE1SFI4/230A/2
	8	IMRE1SSFI8/110A/2	IMRE1SFI8/110A/2		8	IMRE1SSFI8/230A/2	IMRE1SFI8/230A/2
	16	IMRE1SSFI16/110A/2	IMRE1SFI16/110A/2		16	IMRE1SSFI16/230A/2	IMRE1SFI16/230A/2
<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE1SSFI1/110A/3	IMRE1SFI1/110A/3	<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE1SSFI1/230A/3	IMRE1SFI1/230A/3
	2	IMRE1SSFI2/110A/3	IMRE1SFI2/110A/3		2	IMRE1SSFI2/230A/3	IMRE1SFI2/230A/3
	4	IMRE1SSFI4/110A/3	IMRE1SFI4/110A/3		4	IMRE1SSFI4/230A/3	IMRE1SFI4/230A/3
	8	IMRE1SSFI8/110A/3	IMRE1SFI8/110A/3		8	IMRE1SSFI8/230A/3	IMRE1SFI8/230A/3
	16	IMRE1SSFI16/110A/3	IMRE1SFI16/110A/3		16	IMRE1SSFI16/230A/3	IMRE1SFI16/230A/3

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**ORDERING INFORMATION**

**2 CO FUSED RELAY MODULES**

12 VDC COIL VOLTAGE				24 VDC COIL VOLTAGE			
	# of Channels	With Pluggable Relays	With Soldered Relays		# of Channels	With Pluggable Relays	With Soldered Relays
<b>With Fuse at Output</b>	1	IMRE2SSF1/12/OM	IMRE2SF1/12/OM	<b>With Fuse at Output</b>	1	IMRE2SSF1/24/OM	IMRE2SF1/24/OM
	2	IMRE2SSF2/12/OM	IMRE2SF2/12/OM		2	IMRE2SSF2/24/OM	IMRE2SF2/24/OM
	4	IMRE2SSF4/12/OM	IMRE2SF4/12/OM		4	IMRE2SSF4/24/OM	IMRE2SF4/24/OM
	8	IMRE2SSF8/12/OM	IMRE2SF8/12/OM		8	IMRE2SSF8/24/OM	IMRE2SF8/24/OM
	16	IMRE2SSF16/12/OM	IMRE2SF16/12/OM		16	IMRE2SSF16/24/OM	IMRE2SF16/24/OM
<b>With Fuse at Input</b>	1	IMREF2SS1/12/OM	IMREF2S1/12/OM	<b>With Fuse at Input</b>	1	IMREF2SS1/24/OM	IMREF2S1/24/OM
	2	IMREF2SS2/12/OM	IMREF2S2/12/OM		2	IMREF2SS2/24/OM	IMREF2S2/24/OM
	4	IMREF2SS4/12/OM	IMREF2S4/12/OM		4	IMREF2SS4/24/OM	IMREF2S4/24/OM
	8	IMREF2SS8/12/OM	IMREF2S8/12/OM		8	IMREF2SS8/24/OM	IMREF2S8/24/OM
	16	IMREF2SS16/12/OM	IMREF2S16/12/OM		16	IMREF2SS16/24/OM	IMREF2S16/24/OM
<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE2SSF1/12/1	IMRE2SF1/12/1	<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE2SSF1/24/1	IMRE2SF1/24/1
	2	IMRE2SSF2/12/1	IMRE2SF2/12/1		2	IMRE2SSF2/24/1	IMRE2SF2/24/1
	4	IMRE2SSF4/12/1	IMRE2SF4/12/1		4	IMRE2SSF4/24/1	IMRE2SF4/24/1
	8	IMRE2SSF8/12/1	IMRE2SF8/12/1		8	IMRE2SSF8/24/1	IMRE2SF8/24/1
	16	IMRE2SSF16/12/1	IMRE2SF16/12/1		16	IMRE2SSF16/24/1	IMRE2SF16/24/1
<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE2SSF1/12/2	IMRE2SF1/12/2	<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE2SSF1/24/2	IMRE2SF1/24/2
	2	IMRE2SSF2/12/2	IMRE2SF2/12/2		2	IMRE2SSF2/24/2	IMRE2SF2/24/2
	4	IMRE2SSF4/12/2	IMRE2SF4/12/2		4	IMRE2SSF4/24/2	IMRE2SF4/24/2
	8	IMRE2SSF8/12/2	IMRE2SF8/12/2		8	IMRE2SSF8/24/2	IMRE2SF8/24/2
	16	IMRE2SSF16/12/2	IMRE2SF16/12/2		16	IMRE2SSF16/24/2	IMRE2SF16/24/2
<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE2SSF1/12/3	IMRE2SF1/12/3	<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE2SSF1/24/3	IMRE2SF1/24/3
	2	IMRE2SSF2/12/3	IMRE2SF2/12/3		2	IMRE2SSF2/24/3	IMRE2SF2/24/3
	4	IMRE2SSF4/12/3	IMRE2SF4/12/3		4	IMRE2SSF4/24/3	IMRE2SF4/24/3
	8	IMRE2SSF8/12/3	IMRE2SF8/12/3		8	IMRE2SSF8/24/3	IMRE2SF8/24/3
	16	IMRE2SSF16/12/3	IMRE2SF16/12/3		16	IMRE2SSF16/24/3	IMRE2SF16/24/3

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# 1 CO & 2 CO FUSED RELAY MODULES

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

## ORDERING INFORMATION

### 2 CO RELAY MODULES WITH FUSE FAIL INDICATION

110 VAC COIL VOLTAGE				230 VAC COIL VOLTAGE			
	# of Channels	With Pluggable Relays	With Soldered Relays		# of Channels	With Pluggable Relays	With Soldered Relays
<b>With Fuse at Output</b>	1	IMRE2SSF1/110A/OM	IMRE2SF1/110A/OM	<b>With Fuse at Output</b>	1	IMRE2SSF1/230A/OM	IMRE2SF1/230A/OM
	2	IMRE2SSF2/110A/OM	IMRE2SF2/110A/OM		2	IMRE2SSF2/230A/OM	IMRE2SF2/230A/OM
	4	IMRE2SSF4/110A/OM	IMRE2SF4/110A/OM		4	IMRE2SSF4/230A/OM	IMRE2SF4/230A/OM
	8	IMRE2SSF8/110A/OM	IMRE2SF8/110A/OM		8	IMRE2SSF8/230A/OM	IMRE2SF8/230A/OM
	16	IMRE2SSF16/110A/OM	IMRE2SF16/110A/OM		16	IMRE2SSF16/230A/OM	IMRE2SF16/230A/OM
<b>With Fuse at Input</b>	1	IMREF2SS1/110A/OM	IMREF2S1/110A/OM	<b>With Fuse at Input</b>	1	IMREF2SS1/230A/OM	IMREF2S1/230A/OM
	2	IMREF2SS2/110A/OM	IMREF2S2/110A/OM		2	IMREF2SS2/230A/OM	IMREF2S2/230A/OM
	4	IMREF2SS4/110A/OM	IMREF2S4/110A/OM		4	IMREF2SS4/230A/OM	IMREF2S4/230A/OM
	8	IMREF2SS8/110A/OM	IMREF2S8/110A/OM		8	IMREF2SS8/230A/OM	IMREF2S8/230A/OM
	16	IMREF2SS16/110A/OM	IMREF2S16/110A/OM		16	IMREF2SS16/230A/OM	IMREF2S16/230A/OM
<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE2SSF1/110A/1	IMRE2SF1/110A/1	<b>With Fuse Fail Indication for 24 V AC/DC Output</b>	1	IMRE2SSF1/230A/1	IMRE2SF1/230A/1
	2	IMRE2SSF2/110A/1	IMRE2SF2/110A/1		2	IMRE2SSF2/230A/1	IMRE2SF2/230A/1
	4	IMRE2SSF4/110A/1	IMRE2SF4/110A/1		4	IMRE2SSF4/230A/1	IMRE2SF4/230A/1
	8	IMRE2SSF8/110A/1	IMRE2SF8/110A/1		8	IMRE2SSF8/230A/1	IMRE2SF8/230A/1
	16	IMRE2SSF16/110A/1	IMRE2SF16/110A/1		16	IMRE2SSF16/230A/1	IMRE2SF16/230A/1
<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE2SSF1/110A/2	IMRE2SF1/110A/2	<b>With Fuse Fail Indication for 110 V AC/DC Output</b>	1	IMRE2SSF1/230A/2	IMRE2SF1/230A/2
	2	IMRE2SSF2/110A/2	IMRE2SF2/110A/2		2	IMRE2SSF2/230A/2	IMRE2SF2/230A/2
	4	IMRE2SSF4/110A/2	IMRE2SF4/110A/2		4	IMRE2SSF4/230A/2	IMRE2SF4/230A/2
	8	IMRE2SSF8/110A/2	IMRE2SF8/110A/2		8	IMRE2SSF8/230A/2	IMRE2SF8/230A/2
	16	IMRE2SSF16/110A/2	IMRE2SF16/110A/2		16	IMRE2SSF16/230A/2	IMRE2SF16/230A/2
<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE2SSF1/110A/3	IMRE2SF1/110A/3	<b>With Fuse Fail Indication for 230 V AC/DC Output</b>	1	IMRE2SSF1/230A/3	IMRE2SF1/230A/3
	2	IMRE2SSF2/110A/3	IMRE2SF2/110A/3		2	IMRE2SSF2/230A/3	IMRE2SF2/230A/3
	4	IMRE2SSF4/110A/3	IMRE2SF4/110A/3		4	IMRE2SSF4/230A/3	IMRE2SF4/230A/3
	8	IMRE2SSF8/110A/3	IMRE2SF8/110A/3		8	IMRE2SSF8/230A/3	IMRE2SF8/230A/3
	16	IMRE2SSF16/110A/3	IMRE2SF16/110A/3		16	IMRE2SSF16/230A/3	IMRE2SF16/230A/3

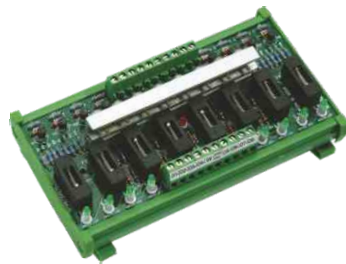
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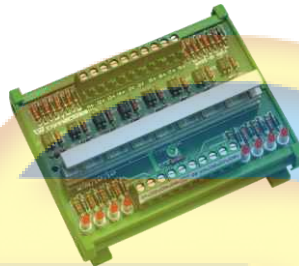
# TRANSISTOR INTERFACE MODULES

## FEATURES

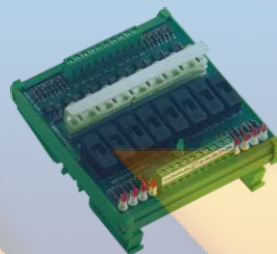
- Avoid the contact bouncing / chattering as there is no mechanical moving parts.
- Solid state switching technology allows switching speeds upto 20 MHz
- No physical / mechanical switching operation hence an operation life which is  $10^5$  times more than electro mechanical relays.
- Solid state technology ensures 100% switching with absolutely no bounce or chatter.
- The transistors coupled with optical isolators ensure a higher isolation level between the input and output.
- Option of fuse protection at output side.



**IMTRFx/24N/24N**  
(Transistor Module Sink to Sink type with Fuse)

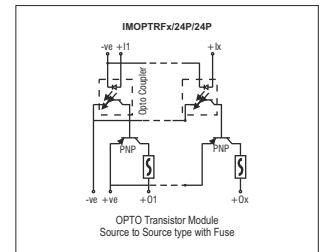
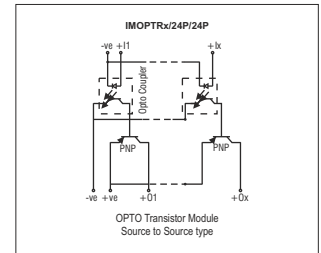
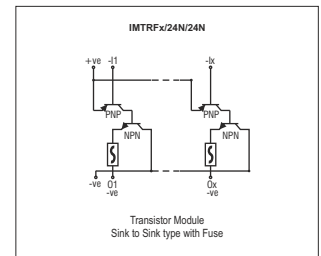


**IMOPTRx/24P/24P**  
(OPTO Transistor Module Source to Source type)



**IMOPTRFx/24P/24P**  
(OPTO Transistor Module Source to Source type with Fuse)

## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Supply Voltage Indication	3 mm Green LED
Output ON Indication	3 mm Red LED
Load Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### TRANSISTOR DATA

	Source to Source	Sink to Sink
Transistor Series	BDX-54C	BDX-53C
Standard Input Voltage	+24 VDC	-24 VDC
Standard Output Switching Voltages	+24 VDC	-24 VDC

## ORDERING INFORMATION

### 8 Channel Source to Source Type

Module Type	OPTO TRANSISTOR	OPTO TRANSISTOR WITH FUSE
+24 VDC Input	IMOPTR8/24P/24P	IMOPTRF8/24N/24N

### 8 Channel Sink to Sink Type

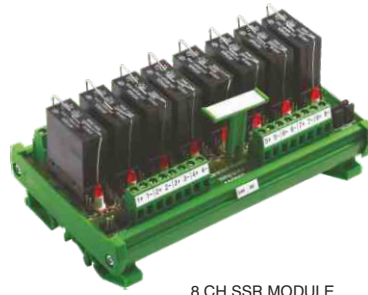
Module Type	TRANSISTOR	TRANSISTOR WITH FUSE
-24 VDC Input	IMTR8/24P/24N	IMTRF8/24N/24N

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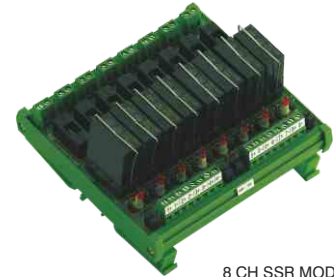
# SSR MODULES & SSR MODULES WITH FUSE AT O/P DC INPUT-DC OUTPUT & DC INPUT-AC OUTPUT

## FEATURES

- Variety of Operating Voltages.
- Low Drive Current (20 mA)
- 2500V Dielectric Strength
- LED Status Indicator
- Photo Isolation
- Built-In Snubber (AC Output)
- Zero Cross Turn-On (AC Output)
- Bipolar Transistor / MOSFET Output (DC Output)
- Mounting options available :  
DIN Rail mounting & Panel mounting.
- Easy to replace pluggable SSR.
- Replaceable fuses with simple to operate Horizontal fuse holders
- Fast Blow & Slow Blow fuses available as standard
- Fuse ratings from 0.1 A to 6.3 A available.



8 CH SSR MODULE



8 CH SSR MODULE WITH FUSE AT OUTPUT



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC Controllers and field actuators & devices. These modules provide optical isolation with the help of Solid State relays. These modules are used for high frequency switching applications. It avoids the contact bounce, chattering as there is no mechanical moving part.

## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8	16
<b>SSR Modules</b>					
Width (mm)	88	88	88	88	88
Height (mm)	74	74	74	74	74
Length (mm)*	23	45	79	148	289

### SSR Modules with Fuse

Width (mm)	120	120	120	120	120
Height (mm)	74	74	74	74	74
Length (mm)*	23	39	69	130	219

Channels other than specified are available on request

Positive Bussing Possibility By using spare jumpers.

Negative Bussing Possibility By using spare jumpers.

Power ON Indication 3 mm Red LED

### SSR General Data

Dielectric Strength	2500 VAC, 50/60 Hz, 1 min.
Insulation Resistance	1000 M ohms (at 500 VDC)
Maximum Capacitance (Input to Output)	8 pF
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 - 14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### SSR INPUT DATA

(Voltages other than specified below are available on request)

Control Voltage Range	5 VDC	12 VDC	24 VDC
Must Operate Voltage	4 VDC	9.6 VDC	19.2 VDC
Must Release Voltage	1 VDC	1 VDC	1 VDC
Max. Reverse Protection	-6 VDC	-14.4 VDC	-28.8 VDC
Max. Input Current	20 mA	20 mA	20 mA

### SSR OUTPUT DATA

	DC Output	AC Output
Contact Type	1NO (SPST)	1NO (SPST)
Load Voltage Range	3 to 125 VDC	75 to 400 VAC
Load Current Range	0.1 to 2A	0.1 to 3A
Max. Surge Current	10 times of rated current	10 times of rated current
Max. Leakage Current	0.1 mA	1.5 mA
Max. On State Voltage Drop	1.5 VDC	1.5 VAC
Turn-on Time (Zero Cross turn on)	1 ms	1/2 Cycle + 1 ms
Turn-off Time	1 ms	1/2 Cycle + 1 ms
Max. Transient Voltage	125 Vpk	600 Vpk

### FUSE HOLDER DATA

Cap Design	Flat
Fuse Link Size	5 x 20 mm
Mounting Style	Horizontal
Rated Current	6.3 A

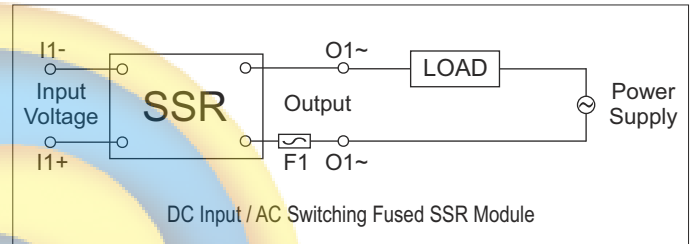
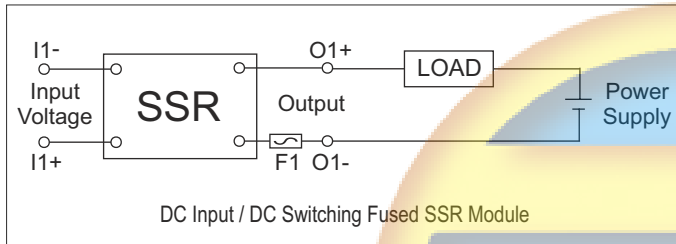
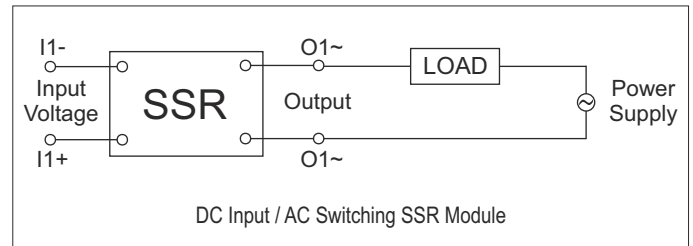
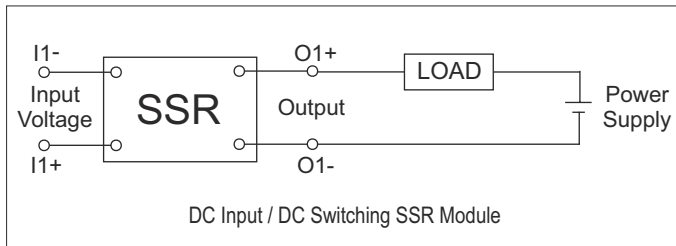
### FUSE DATA

Fuse Size	5 x 20 mm
Fuse Type	Fast Blow/Slow Blow
Fuse Ratings (A)	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

Connection Diagrams



ORDERING INFORMATION

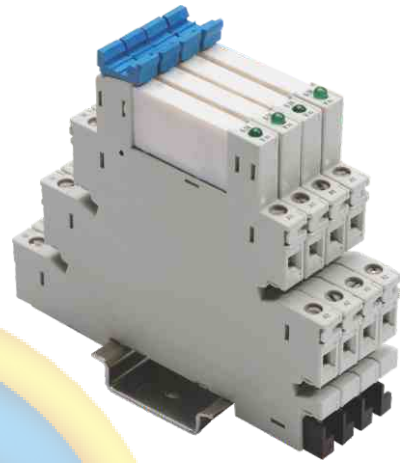
	# of Chn.	5 VDC Control Voltage		12 VDC Control Voltage		24 VDC Control Voltage	
		With Pluggable Relays	With Soldered Relays	With Pluggable Relays	With Soldered Relays	With Pluggable Relays	With Soldered Relays
<b>DC Input - DC Output 2 Amp</b>	1	IMERS1/5D125D2	IMER1/5D125D2	IMERS1/12D125D2	IMER1/12D125D2	IMERS1/24D125D2	IMER1/24D125D2
	2	IMERS2/5D125D2	IMER2/5D125D2	IMERS2/12D125D2	IMER2/12D125D2	IMERS2/24D125D2	IMER2/24D125D2
	4	IMERS4/5D125D2	IMER4/5D125D2	IMERS4/12D125D2	IMER4/12D125D2	IMERS4/24D125D2	IMER4/24D125D2
	8	IMERS8/5D125D2	IMER8/5D125D2	IMERS8/12D125D2	IMER8/12D125D2	IMERS8/24D125D2	IMER8/24D125D2
	16	IMERS16/5D125D2	IMER16/5D125D2	IMERS16/12D125D2	IMER16/12D125D2	IMERS16/24D125D2	IMER16/24D125D2
<b>DC Input - AC Output 3 Amp</b>	1	IMERS1/5D400A3	IMER1/5D400A3	IMERS1/12D400A3	IMER1/12D400A3	IMERS1/24D400A3	IMER1/24D400A3
	2	IMERS2/5D400A3	IMER2/5D400A3	IMERS2/12D400A3	IMER2/12D400A3	IMERS2/24D400A3	IMER2/24D400A3
	4	IMERS4/5D400A3	IMER4/5D400A3	IMERS4/12D400A3	IMER4/12D400A3	IMERS4/24D400A3	IMER4/24D400A3
	8	IMERS8/5D400A3	IMER8/5D400A3	IMERS8/12D400A3	IMER8/12D400A3	IMERS8/24D400A3	IMER8/24D400A3
	16	IMERS16/5D400A3	IMER16/5D400A3	IMERS16/12D400A3	IMER16/12D400A3	IMERS16/24D400A3	IMER16/24D400A3
<b>DC Input - DC Output 2 Amp with Fuse at Output</b>	1	IMERSF1/5D125D2	IMERF1/5D125D2	IMERSF1/12D125D2	IMERF1/12D125D2	IMERSF1/24D125D2	IMERF1/24D125D2
	2	IMERSF2/5D125D2	IMERF2/5D125D2	IMERSF2/12D125D2	IMERF2/12D125D2	IMERSF2/24D125D2	IMERF2/24D125D2
	4	IMERSF4/5D125D2	IMERF4/5D125D2	IMERSF4/12D125D2	IMERF4/12D125D2	IMERSF4/24D125D2	IMERF4/24D125D2
	8	IMERSF8/5D125D2	IMERF8/5D125D2	IMERSF8/12D125D2	IMERF8/12D125D2	IMERSF8/24D125D2	IMERF8/24D125D2
	16	IMERSF16/5D125D2	IMERF16/5D125D2	IMERSF16/12D125D2	IMERF16/12D125D2	IMERSF16/24D125D2	IMERF16/24D125D2
<b>DC Input - AC Output 3 Amp with Fuse at Output</b>	1	IMERSF1/5D400A3	IMERF1/5D400A3	IMERSF1/12D400A3	IMERF1/12D400A3	IMERSF1/24D400A3	IMERF1/24D400A3
	2	IMERSF2/5D400A3	IMERF2/5D400A3	IMERSF2/12D400A3	IMERF2/12D400A3	IMERSF2/24D400A3	IMERF2/24D400A3
	4	IMERSF4/5D400A3	IMERF4/5D400A3	IMERSF4/12D400A3	IMERF4/12D400A3	IMERSF4/24D400A3	IMERF4/24D400A3
	8	IMERSF8/5D400A3	IMERF8/5D400A3	IMERSF8/12D400A3	IMERF8/12D400A3	IMERSF8/24D400A3	IMERF8/24D400A3
	16	IMERSF16/5D400A3	IMERF16/5D400A3	IMERSF16/12D400A3	IMERF16/12D400A3	IMERSF16/24D400A3	IMERF16/24D400A3

# 1 CO SLIM RELAY MODULES

## FEATURES

- Pitch: 6.2 mm
- Variety of Operating Voltages.
- High Switching current: up to 6A at 250VAC
- Low coil power consumption: 170 mW
- LED indication on coil activation.
- No requirement on polarity of input voltage (except 5 VDC Relay).
- Easy to replace pluggable relays.
- Possibility of jumpering up to 16 channels with a single link.
- Jumpering up to 'n' number of channels using combination of shorting links.

With a pitch of just 6 mm the 1 CO Slim Relay Module is the most compact Relay Module available.



Connectwell DIN Rail & Panel mounting Slim relay module is extremely compact solution with the pitch of 6.2 mm, helps to solve the space concern in the cabinet. It provides electrical isolation with the help of electro mechanical relay.

## TECHNICAL INFORMATION

### GENERAL DATA

Power ON Indication	3 mm Green LED
Mounting Types	DIN35 / DIN35-15

### RELAY SOCKET DATA

Housing Material	PA66+GF V0 (UL)
Contact Spring Material	QSn6.5-0.1
Ambient Temperature	-40° C to +70° C
Rated Voltage	300 VAC
Protection Degree DIN40050	IP20
Torque	0.6 Nm
Wire Stripping Length	7 mm
Maximum Wire Size	2.5 sq.mm

### MODULE DATA (DC INPUT)

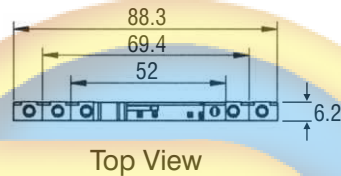
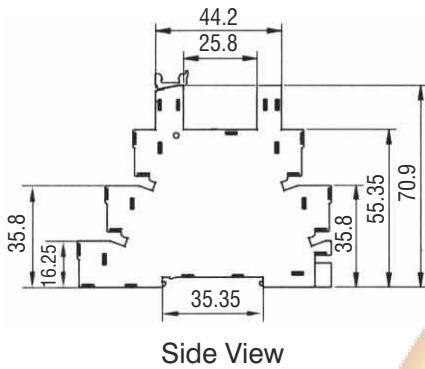
Nominal Operating Voltage (VDC)	5	12	24	48	60	110	230
Pick-up Voltage (VDC)	≤4	≤9.8	≤19.2	≤38.4	≤48	≤100	≤192
Drop-out Voltage (VDC)	≥0.25	≥0.6	≥1.2	≥2.4	≥3	≥5.5	≥11
Max. Allowable Input Voltage (VDC)	≤5.5	≤13.2	≤26.4	≤52.8	≤66	≤121	≤242
Nominal Input Current (mA)	34	18.2	15.1	4.5	3.6	5	4
Input Power (W)	0.2	0.2	0.3	0.4	0.5	0.6	0.9

### MODULE DATA (AC INPUT)

Nominal Operating Voltage (VAC)	12	24	48	60	110	230
Pick-up Voltage (VAC)	≤9.8	≤19.2	≤38.4	≤48	≤100	≤192
Drop-out Voltage (VAC)	≥1.2	≥2.4	≥4.8	≥6	≥11	≥22
Max. Allowable Input Voltage (VAC)	≤13.2	≤26.4	≤52.8	≤66	≤121	≤242
Nominal Input Current (mA)	18.2	15.1	4.5	3.6	5	4
Input Power (VA)	0.2	0.3	0.4	0.5	0.6	0.9

### MODULE CONTACT DATA

Contact Arrangement	1C/O
Contact Resistance	100 mΩ (at 1A 6 VDC)
Contact Material	AgNi
Contact Rating (Res. load)	6A 250 VA / 30 VDC
Max. Switching Voltage	400 VAC / 125 VDC (at reduced load)
Max. Switching Power	1500 VA / 180 W
Mechanical Endurance	1 x 10 <sup>7</sup> OPS
Electrical Endurance	NO : 3 x 10 <sup>4</sup> OPS (at 85° C) NC : 1 x 10 <sup>4</sup> OPS (at 85° C)



**Comb Type Shorting Link for Slim Relay Modules**

External shorting links bridge potentials between Modular relays, reducing wiring time. Adjacent modules within an assembly can be easily interconnected. Individual links may be removed for selective shorting. These are insulated and available in 2, 4, 8 & 16 pole versions. They are made of tin plated brass / copper.

**ORDERING INFORMATION**

**Slim Relay Modules**

**Slim Relay Modules with DC Input**

Input Voltage	5VDC	12VDC	24VDC	48VDC	60VDC
Cat. No.	IMSR1SS1/5	IMSR1SS1/12	IMSR1SS1/24	IMSR1SS1/48	IMSR1SS1/60

**Slim Relay Modules with AC Input**

Input Voltage	12VAC	24VAC	48VAC	60VAC	110VAC	230VAC
Cat. No.	IMSR1SS1/12A	IMSR1SS1/24A	IMSR1SS1/48A	IMSR1SS1/60A	IMSR1SS1/110A	IMSR1SS1/230A

**Slim Relay Module Accessories**

**DC Input Relays**

Input Voltage	5VDC	12VDC	24VDC	48VDC	60VDC
Cat. No.	IMACC/SR1S/5	IMACC/SR1S/12	IMACC/SR1S/24	IMACC/SR1S/48	IMACC/SR1S/60

**AC Input Relays**

Input Voltage	12VAC	24VAC	48VAC	60VAC	110VAC	230VAC
Cat. No.	IMACC/SR1S/12	IMACC/SR1S/24	IMACC/SR1S/48	IMACC/SR1S/60	IMACC/SR1S/60	IMACC/SR1S/60

**Shorting Links**

Shorting Link	2 Way	4 Way	8 Way	16 Way
Cat. No.	IMACC/SL1/2	IMACC/SL1/4	IMACC/SL1/8	IMACC/SL1/16

**Mounting Rails & Marking Tags**

Mounting Rail	CA701 and CA701-15
Marking Tag	CA509/K6

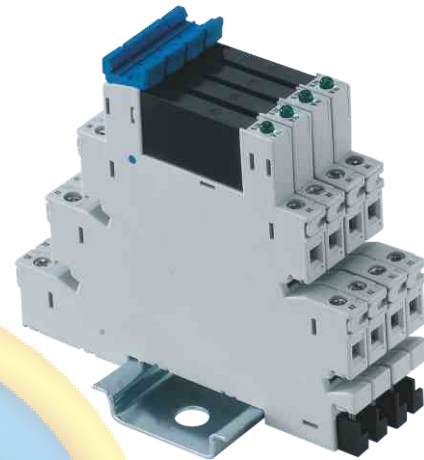
# SLIM SSR MODULES

- DC IN-DC OUT - DC IN-AC OUT - AC IN-DC OUT  
 - AC IN-AC OUT - DC IN-DC OUT (100 mA) - AC IN-DC OUT (100 mA)

## FEATURES

- Pitch: 6.2 mm
- Variety of Operating Voltages.
- Low Drive Current (20 mA)
- 2500V Dielectric Strength
- LED Status Indicator
- Photo Isolation
- Zero Cross Turn-On (AC Output)
- Bipolar Transistor / MOSFET Output (DC Output)
- TTL and CMOS compatible
- For interface application between PLC and external loads
- DIN Rail mounting
- Easy to replace pluggable SSR

Connectwell DIN Rail & Panel mounting Slim SSR module is extremely compact solution with the pitch of 6.2 mm, helps to solve the space concern in the cabinet. It provides optical isolation with the help of electro mechanical relay.



## TECHNICAL INFORMATION

### GENERAL DATA

Power ON Indication	3 mm Green LED
Mounting Types	DIN35 / DIN35-15

### RELAY SOCKET DATA

Housing Material	PA66+GF V0 (UL)
Contact Spring Material	QSn6.5-0.1
Ambient Temperature	-40° C to +70° C
Rated Voltage	300 VAC
Protection Degree DIN40050	IP20
Torque	0.6 Nm
Wire Stripping Length	7 mm
Maximum Wire Size	2.5 sq.mm

### SSR OUTPUT DATA

Operating Voltage Range From To

Output Type

Blocking Voltage

Transient Over Voltage

Load Current

Max. Surge Current

Max. On State Voltage Drop

Max. Turn On Time

Max. Turn Off Time

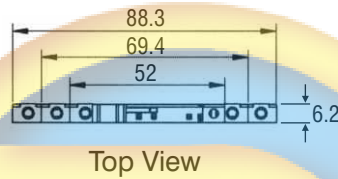
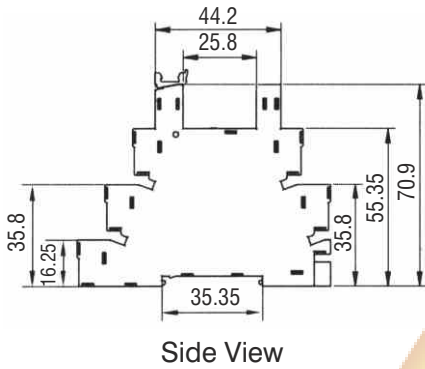
Max. Output Leakage Current

	DC IN - AC OUT	DC IN - DC OUT	AC IN - AC OUT	AC IN - DC OUT	DC IN - DC OUT (100 mA)	AC IN - DC OUT (100 mA)
Operating Voltage Range From To	0 VDC	48 VAC	0 VDC	48 VAC	0 VDC	0 VDC
	57.6VDC	440VAC	57.6VDC	440VAC	57.6VDC	57.6VDC
Output Type	SPST-NO	SPST-NO	SPST-NO	SPST-NO	SPST-NO	SPST-NO
Blocking Voltage	58VDC	-	58VDC	-	58VDC	58VDC
Transient Over Voltage	-	800Vpk	-	800Vpk	-	-
Load Current	0.02A-4A	0.1A-2A	0.02A-4A	0.1A-2A	100mA	100mA
Max. Surge Current	48 A	80 A	48 A	80 A	-	-
Max. On State Voltage Drop	0.35 VDC	1.2 Vrms	0.35 VDC	1.2 Vrms	1.2 VDC	1.2 VDC
Max. Turn On Time	50 μs	1 μs	50 μs	1 μs	50 μs	50 μs
Max. Turn Off Time	300μs	½Cycle+ 1μs	300μs	½Cycle+ 1μs	300μs	300 μs
Max. Output Leakage Current	-	1 mA	-	1 mA	-	-

### SSR INPUT DATA

	DC IN - AC OUT	DC IN - DC OUT	AC IN - AC OUT	AC IN - DC OUT	DC IN - DC OUT (100 mA)	AC IN - DC OUT (100 mA)
Nominal Operating Voltage	24VDC	24VDC	24VAC	24VAC	24VDC	24VAC
Control Voltage Range From To	19.2VDC	19.2VDC	19.2VAC	19.2VAC	19.2VDC	19.2VAC
	28.8VDC	28.8VDC	28.8VAC	28.8VAC	28.8VDC	28.8VAC
Must Turn On Voltage	19.2VDC	19.2VDC	19.2VAC	19.2VAC	19.2VDC	19.2VAC
Must Turn Off Voltage	10VDC	10VDC	10VAC	10 VAC	10 VDC	10 VAC
Input Current	14 mA	14 mA	14 mA	14 mA	14 mA	14 mA
Maximum Input Current	25 mA	25 mA	25 mA	25 mA	25 mA	25 mA

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**Comb Type Shorting Link for Slim SSR Modules**

External shorting links bridge potentials between Modular relays, reducing wiring time. Adjacent modules within an assembly can be easily interconnected. Individual links may be removed for selective shorting. These are insulated and available in 2, 4, 8 & 16 pole versions. They are made of tin plated brass / copper.

**ORDERING INFORMATION**

**Slim SSR Modules**

DC IN - DC OUT	IMSER1/24D48D4
DC IN - AC OUT	IMSER1/24D380A2
AC IN - DC OUT	IMSER1/24A48D4
AC IN - AC OUT	IMSER1/24A380A2
DC IN - DC OUT (100 mA)	IMSER1/24D48D0.1
AC IN - DC OUT (100 mA)	IMSER1/24A48D0.1

**Slim SSR Module Accessories**

**Slim SSRs**

DC IN - DC OUT	IMACC/SER/24D48D4
DC IN - AC OUT	IMACC/SER/24D380A2
AC IN - DC OUT	IMACC/SER/24D48D4
AC IN - AC OUT	IMACC/SER/24D380A2
DC IN - DC OUT (100 mA)	IMACC/SER/24D48D.1
AC IN - DC OUT (100 mA)	IMACC/SER/24D48D.1

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**Shorting Links**

Shorting Link	2 Way	4 Way	8 Way	16 Way
Cat. No.	IMACC/SL1/2	IMACC/SL1/4	IMACC/SL1/8	IMACC/SL1/16

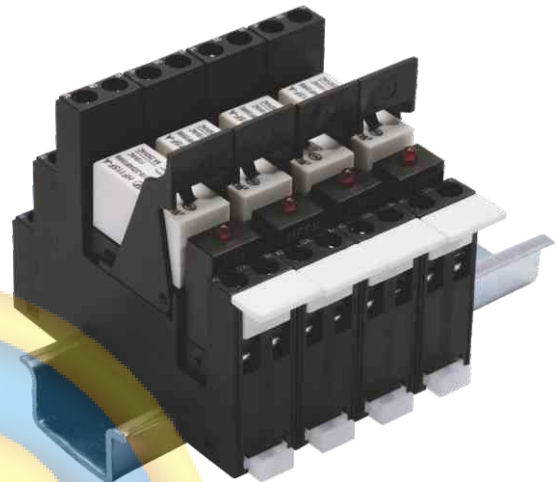
**Mounting Rails & Marking Tags**

Mounting Rail	CA701 and CA701-15
Marking Tag	CA509/K6

# DIN RAIL MOUNTABLE 2 CO MODULAR RELAYS

## FEATURES

- Pitch: 15.6 mm
- High Switching current: up to 8A at 250VAC
- Power consumption: 400 mW
- LED indication on coil activation.
- Free-wheeling diode protection for relay coil.
- Easy to replace pluggable relays.
- Available with 1 CO and 2 CO relays
- Available in both AC and DC coil voltages.



## TECHNICAL INFORMATION

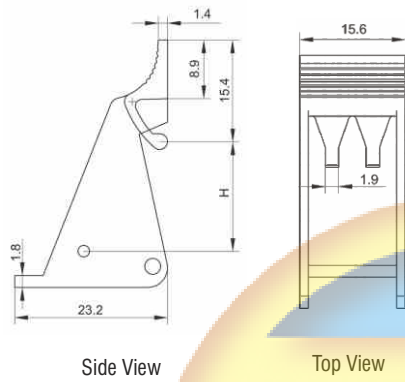
GENERAL DATA		RELAY CONTACT DATA			
Power ON Indication	3 mm Red LED	Contact Arrangement	2 CO	1 CO & 2 CO	
Mounting Types	DIN35 / DIN35-15	Contact Resistance	50 mΩ (at 1A 24VDC)	100 mΩ (at 1A 6 VDC)	
RELAY SOCKET DATA		Contact Material	AgNi	AgNi	
Housing Material	PA66+GF V0 (UL)	Contact Rating (Res. load)	8A 250 VAC / 24 VDC	12A / 16A / 250 VAC (1 CO)& 8A, 250 VAC (2 CO)	
Contact Spring Material	QSn6.5-0.1	Max. Switching Voltage (at reduced load)	440 VAC / 125 VDC	440 VAC / 125 VDC	
Ambient Temperature	-40° C to +70° C	Max. Switching Power	3000 VA	3000 VA / 4000 VA (1 CO) & 2000 VA (2 CO)	
Rated Voltage	300 VAC	Mechanical Endurance	1 x 10 <sup>7</sup> OPS	1 x 10 <sup>6</sup> OPS	
Protection Degree DIN40050	IP20	Electrical Endurance	1 x 10 <sup>5</sup> OPS	5 x 10 <sup>4</sup> OPS	
Torque	0.6 Nm				
Wire Stripping Length	7 mm				
Maximum Wire Size	2.5 sq.mm				
RELAY COIL DATA		DC COIL	AC COIL		
Normal Voltage	24 VDC	24 VAC	110 VAC	230 VAC	
Pick-up Voltage	16.8 VDC	18 VAC	86.30 VAC	172.50 VAC	
Drop-out Voltage	2.40 VDC	3.60 VAC	17.30 VAC	34.5 VAC	
Max. Allowable Voltage	26.4 VDC	26.4 VAC	126.5 VAC	253 VAC	
Coil Resistance	1440 Ω (1±10%)	350 Ω (1±10%)	8100 Ω (1±15%)	32500 Ω (1±15%)	
Coil Power	400 mW	0.75 VA	0.75 VA	0.75 VA	

Voltages other than specified are available on request

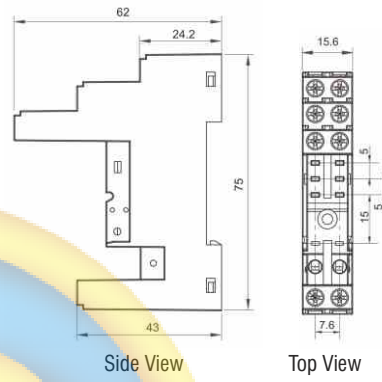
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**Retainer Dimensions**



**Outline Dimensions**



**ORDERING INFORMATION**

**Modular Relay Modules**

**2 CO Modular Relay Modules DC Input**

Input Voltage	24VDC
2 CO	IMMR2SS1/24

**1 CO & 2 CO Modular Relay Modules AC Input**

Input Voltage	24VAC	110VAC	230VAC
1 CO	IMMR1SS1/24A	IMMR1SS1/110A	IMMR1SS1/230A
2 CO	IMMR2SS1/24A	IMMR2SS1/110A	IMMR2SS1/230A

**Modular Relay Module Accessories**

**DC Input Relays**

Input Voltage	24VDC
2 CO	IMACC/MR2S/24

**AC Input Relays**

Input Voltage	24VAC	110VAC	230VAC
1 CO	IMACC/MR1S/24A	IMACC/MR1S/110A	IMACC/MR1S/230A
2 CO	IMACC/MR2S/24A	IMACC/MR2S/110A	IMACC/MR2S/230A

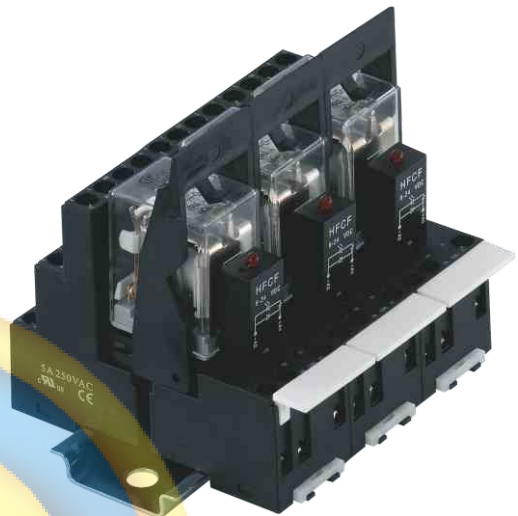
**Mounting Rails**

Mounting Rail	CA701 and CA701-15
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# DIN RAIL MOUNTABLE 4 CO MODULAR RELAYS

## FEATURES

- Pitch: 27.2 mm
- High Switching current: up to 5A at 250VAC
- Dielectric Strength: 1.5 kV (Between Coil & Contacts)
- LED indication on coil activation.
- Free-wheeling diode protection for relay coil.
- Easy to replace pluggable relays.
- Available in both AC and DC coil voltages.



## TECHNICAL INFORMATION

### GENERAL DATA

Power ON Indication	3 mm Red LED
Mounting Types	DIN35 / DIN35-15

### RELAY SOCKET DATA

Housing Material	PA66+GF V0 (UL)
Contact Spring Material	QSn6.5-0.1
Ambient Temperature	-40° C to +70° C
Rated Voltage	250 VAC
Protection Degree DIN40050	IP20
Torque	0.6 Nm
Wire Stripping Length	7 mm
Maximum Wire Size	2.5 sq.mm

### RELAY CONTACT DATA

Contact Arrangement	4 CO
Contact Resistance	100 mΩ (at 1A 6 VDC)
Contact Material	Ag Alloy + Au plated
Contact Rating (Res. load)	5A 250 VA / 30 VDC
Max. Switching Voltage	250 VAC / 30 VDC
Max. Switching Current	5 A Per Contact
Max. Switching Power	150 W / 1250 VA
Mechanical Endurance	2 x 10 <sup>7</sup> OPS
Electrical Endurance	1 x 10 <sup>5</sup> OPS

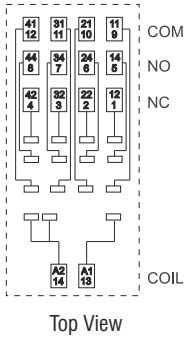
### RELAY COIL DATA

	DC COIL		AC COIL	
	24 VDC	110 VAC	110 VAC	230 VAC
Normal Voltage	24 VDC	110 VAC	110 VAC	230 VAC
Pick-up Voltage	19.2 VDC	96 VAC	96 VAC	176 VAC
Drop-out Voltage	2.40 VDC	36 VAC	36 VAC	72 VAC
Max. Allowable Voltage	26.4 VDC	132 VAC	132 VAC	264 VAC
Coil Resistance	650 Ω (1±10%)	184 Ω (1±10%)	4550 Ω (1±15%)	14400 Ω (1±15%)
Coil Power	400 mW	1.8 VA		

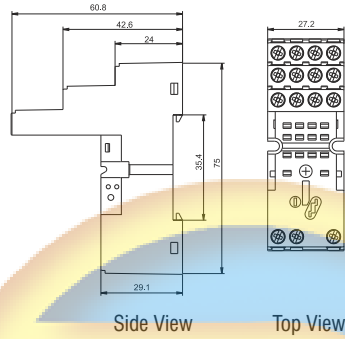
Voltages other than specified are available on request

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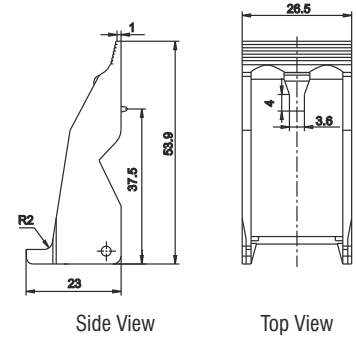
**Wiring Diagram**



**Outline Dimensions**



**Retainer Dimensions**



**ORDERING INFORMATION**

**Modular Relays**

**DC Input 4 CO Modular Relays**

Input Voltage	24VDC
Cat. No.	IMMR4SS1/24

**AC Input 4 CO Modular Relays**

Input Voltage	24VAC	110VAC	230VAC
Cat. No.	IMMR4SS1/24A	IMMR4SS1/110A	IMMR4SS1/230A

**Modular Relay Accessories**

**DC Input Relays**

Input Voltage	24VDC
Cat. No.	IMACC/MR4S/24

**AC Input Relays**

Input Voltage	24VAC	110VAC	230VAC
Cat. No.	IMACC/MR4S/24A	IMACC/MR4S/110A	IMACC/MR4S/230A

**Mounting Rails**

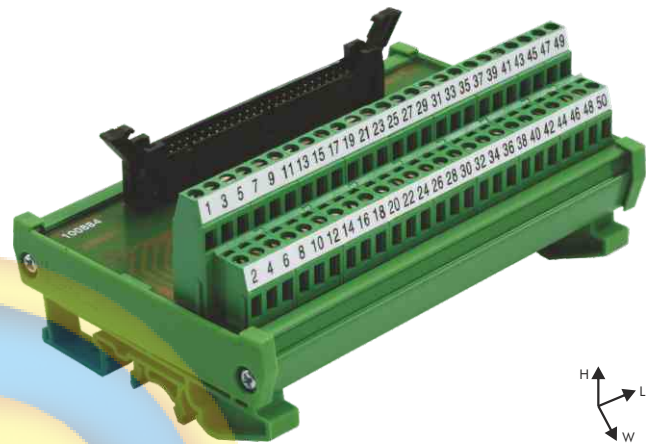
Mounting Rail	CA701 and CA701-15
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# IDC / FRC MODULES

## FEATURES

- Housed in V0 fire retardant grade PVC mounting track.
- Ease of connection with the use of standard screw connection PCB Terminal Blocks or Screwless Terminal Blocks
- Maximum current rating of 2 A per pin.
- Available with all standard pin configurations from 10 to 64.
- Available with LED indication.
- Possibility of mounting circuit components between the pins of IDC connectors.
- Mounting options available: DIN Rail mounting & Panel mounting.

Connectwell IDC / FRC modules facilitate quick connections of initiators, actuators and sensors to PLC I/O modules with the aid of pre assembled cable harness.



## TECHNICAL INFORMATION

### DIMENSIONAL DATA

Number of Channels / Pins	10	14	16	20	26	34	40	50	60	64
Width W (mm)	88	88	88	88	88	88	88	88	88	88
Height H (mm)	65	65	65	65	65	65	65	65	65	65
Length L (mm) ***	41	47	52	62	77	97	113	137	163	173

### GENERAL DATA

Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types *	DIN32 / DIN35 / DIN35-15 / PANEL*
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green
Component Mounting Hole Ømm (optional)	1 mm

### IDC / FRC CONNECTOR DATA\*\*

Insulation Material	PBT, glass reinforced
Contact Material	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric Withstanding Voltage	500VAC for 1 minute
Pin Configurations Available	10,14,16,20,26,34,40,50,60 & 64
Approvals	

### DISCRETE CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

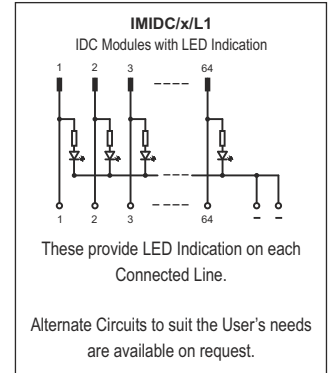
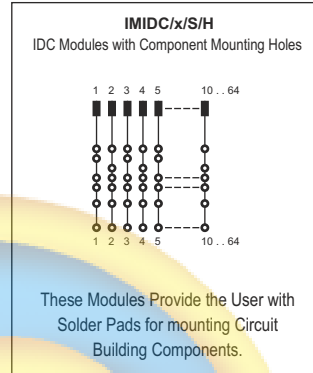
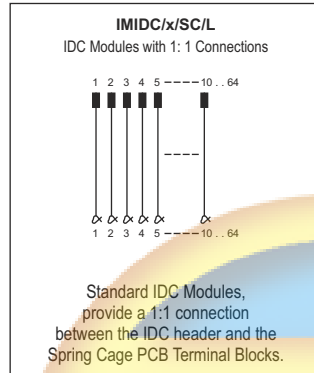
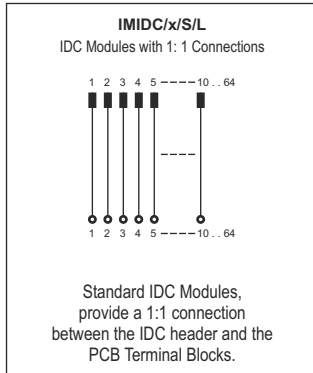
### CONFIGURATIONS \*\*

IDC Modules with 1: 1 Screw Connections:	IMIDC/xx/S/L
IDC Modules with 1: 1 Spring Connections:	IMIDC/xx/SC/L
IDC Modules with Component Mounting Holes:	IMIDC/xx/H/L (with 5 component mounting holes / channel)
IDC Modules with LED Indication:	IMIDC/xx/L1/L

\* PANEL mounting modules are available on request. Please use the suffix -P with the above cat. no. for ordering.  
 \*\* Standard IDC Modules available with Long Latch IDC Connectors, Short Latch IDC Connectors available on request.  
 \*\*\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for Panel Mounting.

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**Circuit Diagrams**



**ORDERING INFORMATION**

**IDC / FRC Modules**

# of Pins	With 1:1 connections (Standard)	With 1:1 connections (Spring-Cage)	With Component Mounting Holes	With LED Indication
10	IMIDC/10/S/L	IMIDC/10/SC/L	IMIDC/10/H/L	IMIDC/10/L1/L
14	IMIDC/14/S/L	IMIDC/14/SC/L	IMIDC/14/H/L	IMIDC/14/L1/L
16	IMIDC/16/S/L	IMIDC/16/SC/L	IMIDC/16/H/L	IMIDC/16/L1/L
20	IMIDC/20/S/L	IMIDC/20/SC/L	IMIDC/20/H/L	IMIDC/20/L1/L
26	IMIDC/26/S/L	IMIDC/26/SC/L	IMIDC/26/H/L	IMIDC/26/L1/L
34	IMIDC/34/S/L	IMIDC/34/SC/L	IMIDC/34/H/L	IMIDC/34/L1/L
40	IMIDC/40/S/L	IMIDC/40/SC/L	IMIDC/40/H/L	IMIDC/40/L1/L
50	IMIDC/50/S/L	IMIDC/50/SC/L	IMIDC/50/H/L	IMIDC/50/L1/L
60	IMIDC/60/S/L	IMIDC/60/SC/L	IMIDC/60/H/L	IMIDC/60/L1/L
64	IMIDC/64/S/L	IMIDC/64/SC/L	IMIDC/64/H/L	IMIDC/64/L1/L

# MALE & FEMALE DSUB MODULES

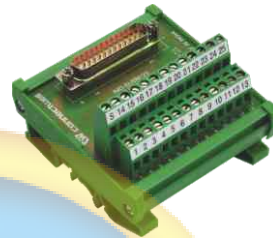
## FEATURES

- Housed in V0 fire retardant grade PVC mounting track.
- Ease of connection with the use of standard screw connection PCB Terminal Blocks or Screwless Terminal Blocks
- Maximum current rating of 3 A per pin.
- Available with male or female DSUB connectors.
- Available with all standard pin configurations from 9 to 50.
- Available with LED indication.
- Possibility of mounting circuit components between the pins of DSUB connectors.
- Mounting options available: DIN Rail mounting & Panel mounting.

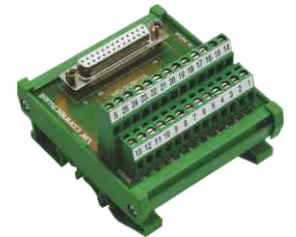
Connectwell DSUB modules facilitate quick connections of initiators, actuators and sensors to PLC I/O modules with the aid of pre assembled cable harness.



MALE DSUB MODULE WITH SPRING TERMINAL BLOCKS



MALE DSUB MODULE



FEMALE DSUB MODULE



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	9	15	25	37	50
Width (mm)	88	88	88	88	88
Height (mm)	65	65	65	65	65
Length (mm)*	43	55	81	112	148
Ambient Temperature (Operation)	-20° C ... 50° C				
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**				
Housing Insulation Material	PVC / V0 Grade				
Housing Colour	Green				
Component Mounting	1 mm				
Hole Ømm (optional)	1 mm				

### DISCRETE CONNECTION DATA

Type of Connection	Screw Connection	Spring Connection
Rated Current / Voltage	16 A / 300 V	15 A / 300 V
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG	28 -12 AWG
Stripping Length	8.3 mm	8 mm
Torque	4.5 lb-in / 0.5 Nm	-

### DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	3A Max
Operation Voltage	250 VAC
Dielectric Withstanding Voltage	1000 VAC for one minute
Number of Contacts	9, 15, 25, 37, 50

### DSUB CONNECTOR MATERIALS

Insulator	PBT, Rated UL94V-0
Contacts	Brass
Shell	Steel
Rivet, Boardlock	Copper Alloy

### CONFIGURATIONS

- All DSUB Configurations available with Male or Female DSUB Connectors.
- 1) DSUB Modules with 1: 1 Connections between discrete screw terminals and DSUB pin. (Male: IMDSUBM/xx/S & Female: IMDSUBF/xx/S)
  - 2) DSUB Modules with 1: 1 Connections between discrete spring terminals and DSUB pin. (Male: IMDSUBM/xx/S & Female: IMDSUBF/xx/S)
  - 3) DSUB Modules with 5 Component Mounting Holes / Channel. (Male: IMDSUBM/xx/H & Female: IMDSUBF/xx/H)
  - 4) DSUB Modules with LED Indication. (Male: IMDSUBM/xx/L1 & Female: IMDSUBF/xx/L1)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

Circuit Diagrams

**IMDSUBM/x/S**

These are the Standard D-SUB Modules which provide 1:1 connection between Double Level Terminal Blocks and Male D-SUB Connectors.

**IMDSUBM/x/SC**

These are the Standard D-SUB Modules which provide 1:1 connection between Spring Cage PCB Terminal Blocks and Male D-SUB Connectors.

**IMDSUBM/x/H**

These D-SUB Modules provide the user with Solder Pads for mounting Circuit Building Components.

**IMDSUBM/x/L1**

These provide LED Indication on each Connected Line. Alternate Circuits to suit the user's needs are available on request.

**IMDSUBF/x/S**

These are the Standard D-SUB Modules which provide 1:1 connection between Double level Terminal Blocks and Female D-SUB Connectors.

**IMDSUBF/x/SC**

These are the Standard D-SUB Modules which provide 1:1 connection between Spring Cage PCB Terminal Blocks and Female D-SUB Connectors.

**IMDSUBF/x/H**

These D-SUB Modules provide the user with Solder Pads for mounting Circuit Building Components.

**IMDSUBF/x/L1**

These provide LED Indication on each Connected Line. Alternate Circuits to suit the user's needs are available on request.

ORDERING INFORMATION

**DSUB Male Modules : IMDSUBM**

# of Pins	With 1:1 connections (Standard)	With 1:1 connections (Spring Cage)	With Component Mounting Holes	With LED Indication
9	IMDSUBM/9/S	IMDSUBM/9/SC	IMDSUBM/9/H	IMDSUBM/9/L1
15	IMDSUBM/15/S	IMDSUBM/15/SC	IMDSUBM/15/H	IMDSUBM/15/L1
25	IMDSUBM/25/S	IMDSUBM/25/SC	IMDSUBM/25/H	IMDSUBM/25/L1
37	IMDSUBM/37/S	IMDSUBM/37/SC	IMDSUBM/37/H	IMDSUBM/37/L1
50	IMDSUBM/50/S	IMDSUBM/50/SC	IMDSUBM/50/H	IMDSUBM/50/L1

**DSUB Female Modules: IMDSUBF**

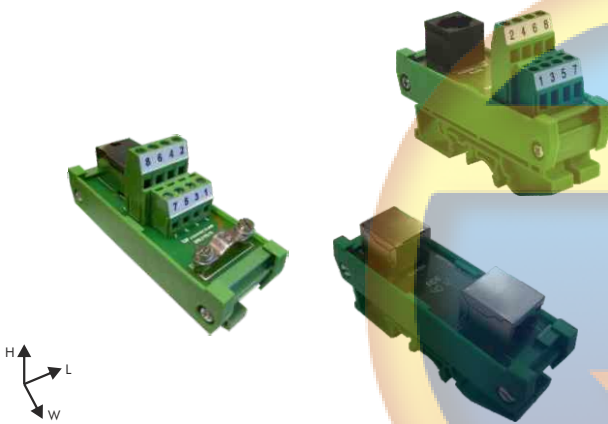
# of Pins	With 1:1 connections (Standard)	With 1:1 connections (Spring Cage)	With Component Mounting Holes	With LED Indication
9	IMDSUBF/9/S	IMDSUBF/9/SC	IMDSUBF/9/H	IMDSUBF/9/L1
15	IMDSUBF/15/S	IMDSUBF/15/SC	IMDSUBF/15/H	IMDSUBF/15/L1
25	IMDSUBF/25/S	IMDSUBF/25/SC	IMDSUBF/25/H	IMDSUBF/25/L1
37	IMDSUBF/37/S	IMDSUBF/37/SC	IMDSUBF/37/H	IMDSUBF/37/L1
50	IMDSUBF/50/S	IMDSUBF/50/SC	IMDSUBF/50/H	IMDSUBF/50/L1

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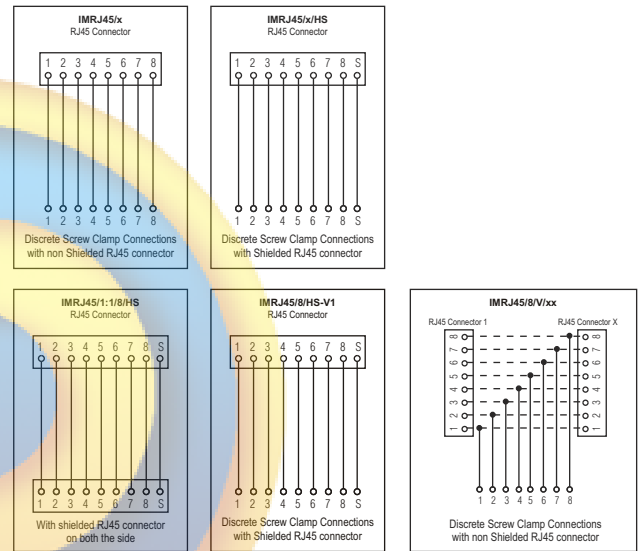
# RJ45 INTERFACE MODULES

## FEATURES

- Ease of connection with the use of standard screw connection Terminal Blocks.
- Mounting Options available: DIN Rail mounting & Panel mounting.
- Housed in V0 fire retardant grade PVC mounting track.
- Possibility of having standard / cross-over connection using the same module.
- Modules are also available with shielded RJ45 connectors.



## Circuit Diagrams



## TECHNICAL INFORMATION

GENERAL DATA	Non Shielded	Shielded	RJ45 CONNECTOR DATA	
Width (mm)	88	88	Voltage Rating	125 VAC RMS.
Height (mm)	65	65	Current Rating	1.5 AMP
Length (mm)*	30	36	Contact Resistance	30 milli ohms max.
RJ45 Connector Orientation	Vertical / Horizontal		Housing Material	Glass Filled Polyester UL94V-0
Ambient Temperature (Operation)	-20° C ... 50° C		Housing Color	Black
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **		Contact Material	Phosphor Bronze (Internal Dia. 0.46mm)
Housing Insulation Material	PVC / V0 Grade		Contact Plating	Gold Flash Plating Over Nickel
Housing Colour	Green		Shield Material	0.23 Thickness Brass with Nickel Plating

## DISCRETE CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

## ORDERING INFORMATION

RJ45 Interface Module with Vertical RJ45 Connector	IMRJ45/8/V
RJ45 Interface Module with Horizontal RJ45 Connector	IMRJ45/8/H
RJ45 Interface Module with Horizontal RJ45 Shielded Connector	IMRJ45/8/HS
RJ45 Interface Module with Horizontal RJ45 Shielded Connector on both the side	IMRJ45/1:1/8/HS
RJ45 Interface Module with Horizontal RJ45 Shielded Connector & Shield Clamp	IMRJ45/8/HS-V1
RJ45 Interface Module with Vertical RJ45 Shielded Connector on both the side	IMRJ45/1:1/8/V
6 Channel RJ45 Interface Module with Vertical RJ45 Connector	IMRJ45/8/V/6

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

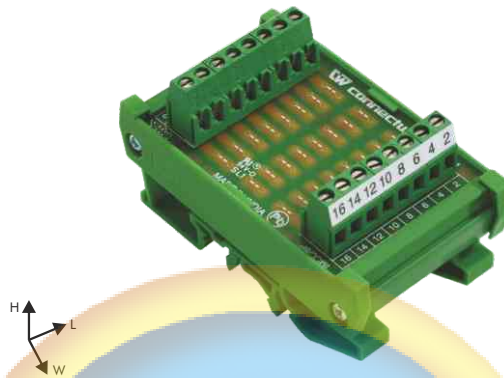
\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.



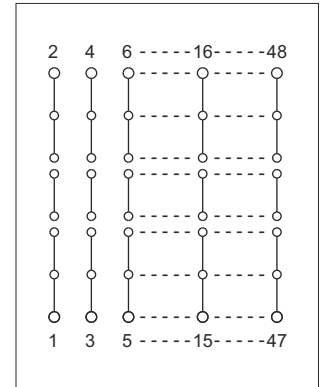
# COMPONENT CARRIER MODULES

## FEATURES

- Connectwell Component Carrier module is used for the electronic circuit development for R&D purpose.
- Ease of connection with the use of standard screw connection Terminal Blocks.
- Mounting Options available: DIN Rail mounting & Panel mounting.
- Mounting Holes provided for discrete electronic components.
- Maximum PCB track current rating of 10 A.
- Housed in V0 fire retardant grade PVC mounting track.



## Circuit Diagram



Connectwell DIN Rail & Panel mounting Component Carrier module is simple and attractive way for an experimenters to build an electronic circuit for prototype.

## TECHNICAL INFORMATION

GENERAL DATA							CONNECTION DATA	
Number of Channels	4	8	12	16	20	24	Type of connection	Screw Connection
Width W (mm)	88	88	88	88	88	88	Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Height H (mm)	51	51	51	51	51	51	Stripping length	8.3 mm
Length L (mm)*	32	53	73	93	113	133	Torque	4.5 lb-in / 0.5 Nm
Component Mounting Holes / Channel	6							
Component Mounting Hole Ø mm	1.1 mm							
Rated Current Carrying Capacity / Channel	10 A (MAX.)							
Ambient Temperature (Operation)	-20° C ... 50° C							
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **							
Housing Insulation Material	PVC / V0 Grade							
Housing Colour	Green							

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

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## ORDERING INFORMATION

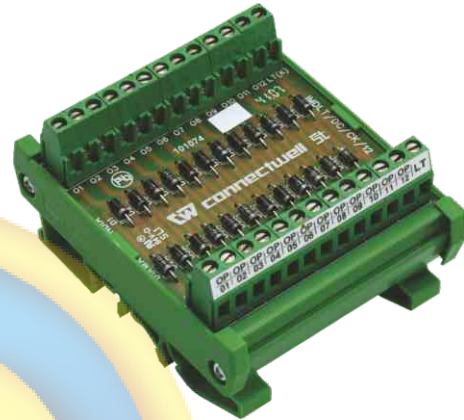
# of Channels	Cat. No.
4	IMCC/4
8	IMCC/8
12	IMCC/12
16	IMCC/16
20	IMCC/20
24	IMCC/24

# DIODE & LAMP TEST MODULES

## FEATURES

- Connectwell Diode & Lamp Test modules is used for testing of indicating lamps in cabinet at a glance or an individual.
- Housed in V0 fire retardant grade mounting track.
- Ease of connection with the use of standard screw connection PCB Terminal Blocks.
- Available with individual, common anode and common cathode standard diode configurations.
- Lamp test configurations for DC and AC applications available as standard.
- Mounting options available:  
DIN Rail mounting & Panel mounting.

Connectwell DIN Rail & Panel mounting Diode & Lamp Test module is design to test AC / DC lamps of block diagram, control panel or display with single signal or each lamp can be tested with separate signals.



## TECHNICAL INFORMATION

### GENERAL DATA

Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types *	DIN32 / DIN35 / DIN35-15 / PANEL*
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### DIODE DATA

Diode Type	1N4007
Maximum Recurrent Peak Reverse Voltage(VRRM)	1000V
Maximum DC Blocking Voltage(VDC)	1000V
Maximum Average Forward Rectified Current at TA = 75°C	1A
Maximum Instantaneous Forward Voltage at 1.0A DC	1.1V
Maximum DC reverse current at rated DC blocking voltage	500 µA @ TA = 25°C and 30 µA @ TA = 100°C

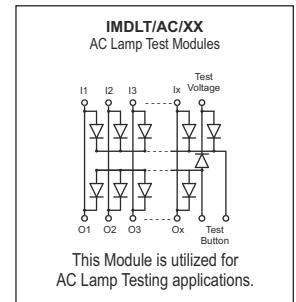
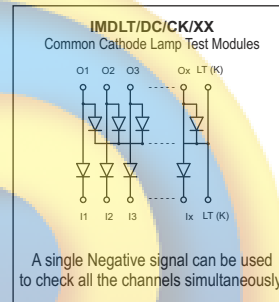
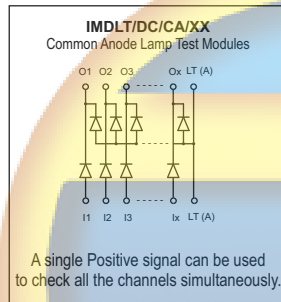
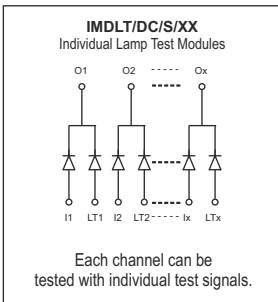
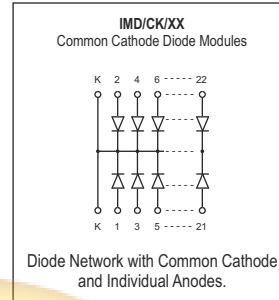
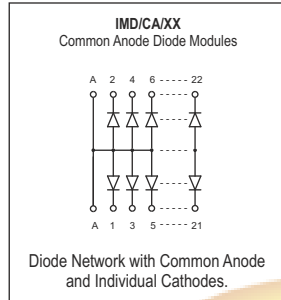
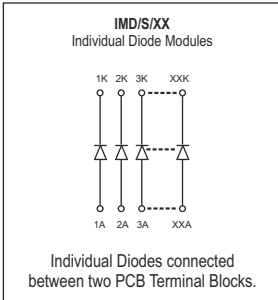
### DIMENSIONAL DATA

	4	5	6	8	10	12	14	16	20	22	24
Number of Channels	4	5	6	8	10	12	14	16	20	22	24
Width W (mm)	88	88	88	88	88	88	88	88	88	88	88
Height H (mm)	51	51	51	51	51	51	51	51	51	51	51
<b>Length L (mm) **</b>											
Individual Diode Modules	32	-	-	53	-	73	-	95	113	-	133
Common Anode Diode Modules	-	-	32	-	-	-	53	-	-	73	-
Common Cathode Diode Modules	-	-	32	-	-	-	53	-	-	73	-
Individual Lamp Test Modules	-	63	73	-	113	-	-	-	-	-	-
Common Anode Lamp Test Modules	-	38	-	-	63	73	-	90	-	-	-
Common Cathode Lamp Test Modules	-	38	-	-	63	73	-	-	-	-	-
AC Lamp Test Modules	-	40	-	-	63	-	-	-	-	-	-

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

Circuit Diagrams



ORDERING INFORMATION

**Diode Modules**

# of Channels	Individual Diode Modules	Common Anode Diode Modules	Common Cathode Diode Modules
4	IMD/S/4	-	-
6	-	IMD/CA/6	IMD/CK/6
8	IMD/S/8	-	-
12	IMD/S/12	-	-
14	-	IMD/CA/14	IMD/CK/14
16	IMD/S/16	-	-
20	IMD/S/20	-	-
22	-	IMD/CA/22	IMD/CK/22
24	IMD/S/24	-	-

**DC Lamp Test Modules**

# of Channels	Individual Lamp Test Modules	Common Anode Lamp Test Modules	Common Cathode Lamp Test Modules
5	IMDLT/DC/S/5	IMDLT/DC/CA/5	IMDLT/DC/CK/5
6	IMDLT/DC/S/6	-	-
10	IMDLT/DC/S/10	IMDLT/DC/CA/10	IMDLT/DC/CK/10
12	-	IMDLT/DC/CA/12	IMDLT/DC/CK/12
16	-	IMDLT/DC/CA/16	-

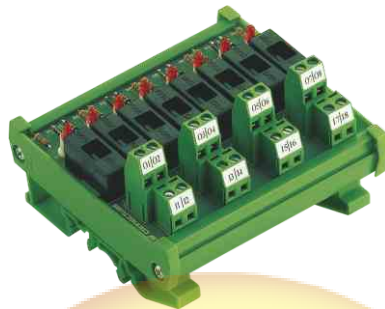
**AC Lamp Test Modules**

# of Channels	Cat. No.
5	IMDLT/AC/5
10	IMDLT/AC/10

# STANDARD FUSE MODULES & FUSE MODULES WITH FUSE FAIL INDICATION

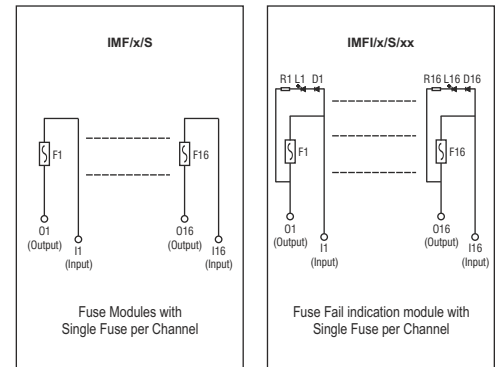
## FEATURES

- Suitable for fuse range from 0.1 A to 6.3 A
- Replaceable fuses with simple to operate vertical fuse holders.
- Fast Blow and Slow Blow fuses available as standard.
- Ease of connection with the use of standard screw connection Terminal Blocks.
- Mounting options available: DIN Rail mounting & Panel mounting.
- Housed in V0 fire retardant grade PVC mounting track.
- LED warning possible for fuse blow indication.



Connectwell DIN Rail & Panel mounting Fuse module allow passage of normal current to the device and interrupts the over current caused by short circuit, over loading, miss match load or device failure so that further damage by overheating or fire is prevented.

## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	2	4	8	16
Width W (mm)	88	88	88	88
Height H (mm)	74	74	74	74
Length L (mm)*	26	48	93	183
Ambient Temperature (Operation)	-20° C ... 50° C			
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**			
Housing Insulation Material	PVC / V0 Grade			
Housing Colour	Green			

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### FUSE DATA

Fuse Size	5 x 20 mm
Fuse Type	Fast Blow / Slow Blow
Fuse Rating Available (A)	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3

### FUSE HOLDER DATA

Cap Design	Screw-In With Coin Slot.
Contact Resistance	10 m ohms max.
Fuse Link Size	5 x 20 mm
Material: Current Carrying Parts	Brass Tin Plated
Material: Housing	Polyamide G.F.
Mounting Style	PCB-type Vertical
Permissible Temp.	-20°C to +85°C
With / Without load	
Rated Current	6.3 A
Terminals	Solder-type

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

### CONFIGURATIONS

Fuse Modules with Single Fuse per Channel : IMF/x/S
Fuse Fail indication module with Single Fuse per Channel : IMFI/x/S/xx

## ORDERING INFORMATION

### Fuse Modules with Single Fuse per Channel : IMF/x/S

# of Channels	Cat. No.
2	IMF/2/S
4	IMF/4/S
8	IMF/8/S
16	IMF/16/S

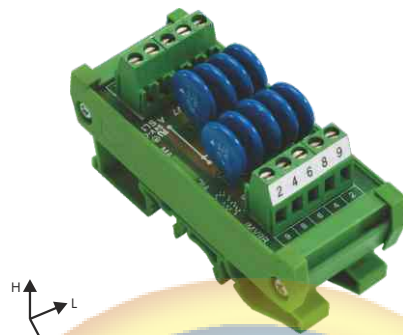
### Fuse Fail indication module with Single Fuse per Channel : IMFI/x/S/xx

# of Channels	24 V AC/DC	110 V AC/DC	230 V AC/DC
2	IMFI/2/S/24	IMFI/2/S/110	IMFI/2/S/230
4	IMFI/4/S/24	IMFI/4/S/110	IMFI/4/S/230
8	IMFI/8/S/24	IMFI/8/S/110	IMFI/8/S/230
16	IMFI/16/S/24	IMFI/16/S/110	IMFI/16/S/230

# VARISTOR MODULES

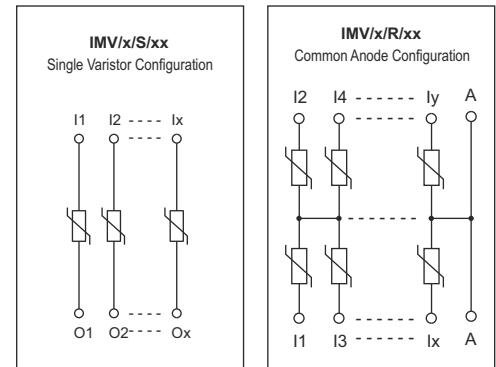
## FEATURES

- Connectwell Varistor module is used to protect the device from line surges and over voltages.
- Ease of connection with the use of standard screw connection Terminal Blocks.
- Available with individual and common anode standard configurations.
- Available with various varistor voltage ratings.
- Housed in V0 fire retardant grade PVC mounting track.



Connectwell DIN Rail & Panel mounting Varistor module provide reliable protection against high voltage transient and surges which may be produced by lightening, switching or electrical noise on AC or DC power lines, to protecting the sensitive circuit components.

## Circuit Diagrams



## TECHNICAL INFORMATION

GENERAL DATA					VARISTOR DATA				
Number of channels	3	5	8	9	14	Varistor Type	14mm Diameter		
Width W (mm)	88	88	88	88	88	Varistor Rating ***	50V	130V	275V
Height H (mm)	65	65	65	65	65	Maximum Allowable Voltage AC	50	130	275
Length L (mm) *	31	27	53	37	53	Maximum Allowable Voltage DC	65	170	350
Ambient Temperature (Operation)	-20° C ... 50° C					Varistor Voltage	59~71	153~187	315~385
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **					Clamping Voltage v	135	340	710
Housing insulation material	PVC / V0 Grade					Rated Wattage (Max.) W	0.6		
Housing Colour	Green					Maximum Energy (2 μs) joule	15	34	71
<b>CONNECTION DATA</b>						Surge Current (8/20 μs) A	4500		
Type of connection	Screw Connection					Response Time	< 25 ns		
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 - 14 AWG					<b>CONFIGURATIONS</b>			
Stripping length	8.3 mm					Varistor Modules with Single Varistor per Channel : IMV/x/S/xx			
Torque	4.5 lb-in / 0.5 Nm					Varistor Modules with Common anode configuration : IMV/x/R/xx			

## ORDERING INFORMATION

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### Single Varistor Configuration

# of Channels	50 V	130 V	275 V
3	IMV/3/S/50	IMV/3/S/130	IMV/3/S/275
8	IMV/8/S/50	IMV/8/S/130	IMV/8/S/275

### Common Anode Configuration

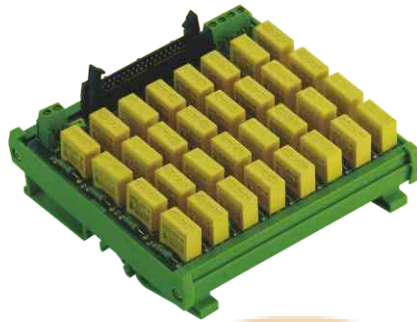
# of Channels	50 V	130 V	275 V
5	IMV/5/R/50	IMV/5/R/130	IMV/5/R/275
9	IMV/9/R/50	IMV/9/R/130	IMV/9/R/275
14	IMV/14/R/50	IMV/14/R/130	IMV/14/R/275

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting.  
 \*\* PANEL mounting modules are available on request. Please use the suffix -P with the above cat. no. for ordering.  
 \*\*\* Varistor voltages are indicative of the range available. All other varistor voltages for 14 mm & 20 mm varistors are available on request.

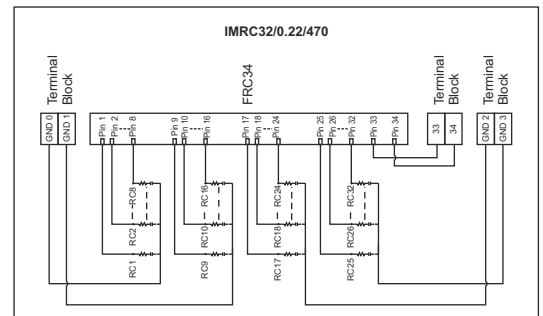
# 32 CHANNEL RC MODULE

## FEATURES

- 16/ 32 Channel resistor - capacitor (RC) circuit built-in.
- Highly compact in size.
- Other capacitor values are also available on request.
- Din rail & Panel mounting option available.



## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade

### CONNECTION DATA

Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 - 14 AWG
Type of Connection	Screw connection
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### IDC / FRC CONNECTOR DATA

No. of Contacts	34
Material Insulator	PBT, glass reinforced
Material Contact	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric withstanding	500 VAC for 1 minute
Voltage	

### RC DATA

Capacitor Type	MPX (Class-X2): Interference Suppression Capacitor
Temperature	-40° C to + 110° C
Capacitance Tolerance	± 20%
Capacitor Value	0.22 µF, 470 V

## ORDERING INFORMATION

Module Specifications	RC Module Cat. No.
0.22 µF 275 VAC, 470Ω ½ W	IMRC16/0.22/470
0.22 µF 275 VAC, 470Ω 2 W	IMRC16/0.22/470/2W
0.22 µF 275 VAC, 1KΩ 2 W	IMRC16/0.22/1K/2W
Module Specifications	RC Module Cat. No.
0.22 µF 275 VAC, 470Ω ½ W	IMRC32/0.22/470
0.22 µF 275 VAC, 470Ω 2 W	IMRC32/0.22/470/2W
0.22 µF 275 VAC, 1KΩ 2 W	IMRC32/0.22/1K/2W
Other RC configuration values available on request	

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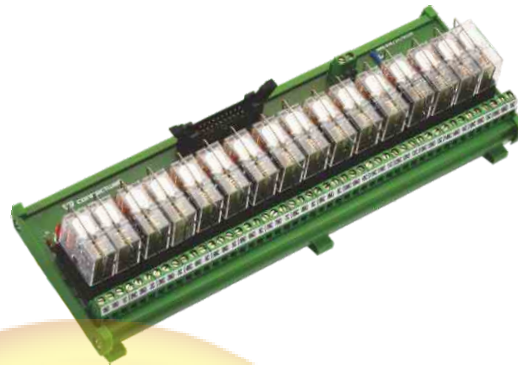
# 16 I/O INTERFACE MODULES for SCHNEIDER PLC

## FEATURES

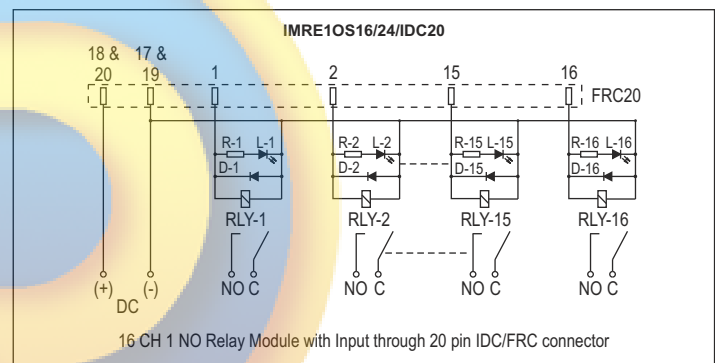
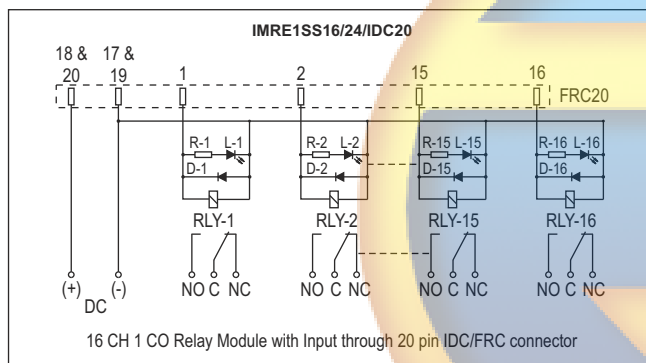
This module simplifies wiring by accommodating 16 channel signals through a Flat Ribbon Cable Connector. The module is best suited for interfacing Schneider PLC.

The Module can also be used with other PLCs which meets the pin configuration.

1 NO Relay Output is also available as standard product.



## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Supply Voltage Indication	3 mm Green LED
Relay ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30-14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-1
Contact Type	1CO (SPDT)
Standard Coil Voltage	24VDC
	(Relay coil voltage like 6 VDC, 12 VDC, 48 DC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgCdO
Rated Current	10A @230 VAC; 10 @30 VDC

### IDC / FRC CONNECTOR DATA

Insulation Material	PBT, glass reinforced
Contact Material	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric withstanding Voltage	500VAC for 1 minute

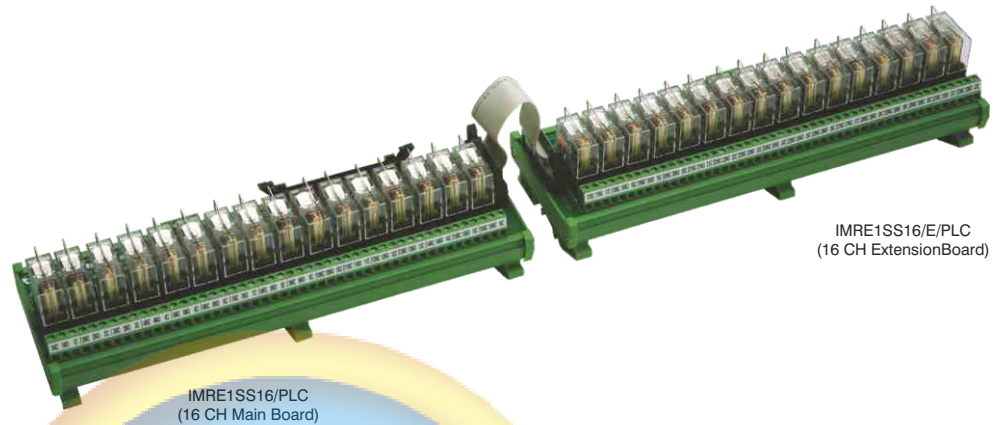
## ORDERING INFORMATION

Module Type	16 CH 1 CO	16 CH 1 NO
With Pluggable Relays	IMRE1SS16/24/IDC20	IMRE1OS16/24/IDC20
With Soldered Relays	IMRE1S16/24/IDC20	IMRE1O16/24/IDC20

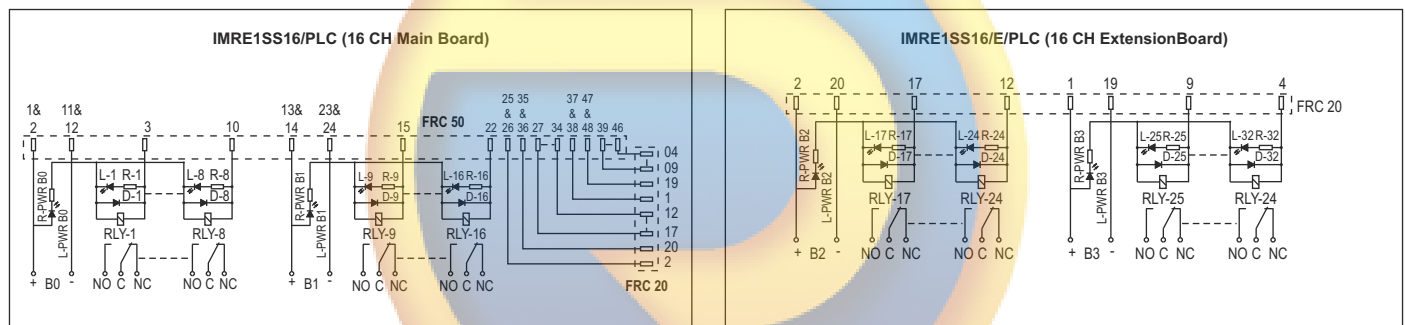
# 32 I/O INTERFACE MODULES for SIEMENS SIMATIC S7-300 / ET200MPLC

## FEATURES

This module simplifies wiring by accommodating 32 channel signals through a Flat Ribbon Cable Connector. The module is supplied in two parts, as the main module (IMRE1SS16/PLC) and it's extension module (IMRE1SS16/E/PLC) along with a 20 core FRC cable to connect them. The module is best suited for interfacing Siemens SIMATIC S7-300 / ET200M PLC.



## Circuit Diagrams



## TECHNICAL INFORMATION

GENERAL DATA	
Supply Voltage Indication	3 mm Green LED
Relay ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

CONNECTION DATA	
Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30-14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

RELAY DATA	
Relay Make / Series	OMRON/G2R-1
Contact Type	1CO (SPDT)
Standard Coil Voltage	24 VDC
	(Relay coil voltage like 6 VDC, 12 VDC, 48 DC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgCdO
Rated current	10A @230 VAC; 10 @30 VDC

IDC / FRC CONNECTOR DATA	
Insulation Material	PBT, glass reinforced
Contact Material	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric withstanding Voltage	500 VAC for 1 minute

## ORDERING INFORMATION

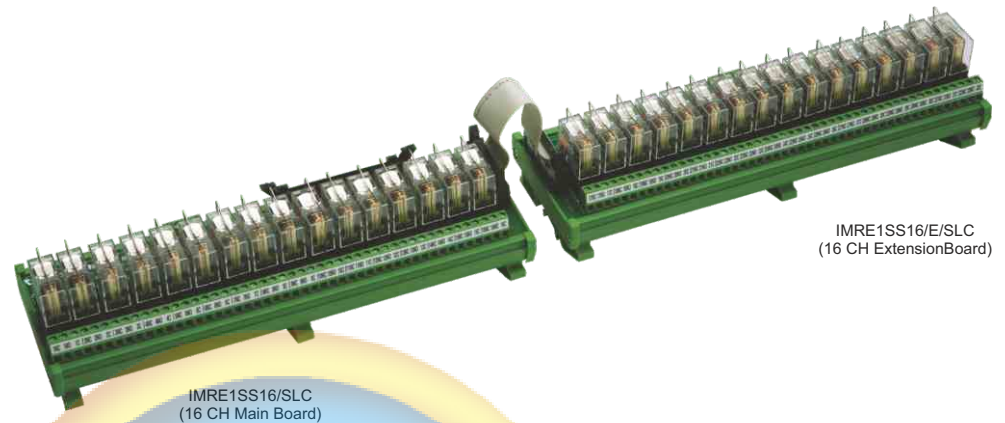
Module Type	16 CH Main Board	16 CH Extension Board
With Pluggable Relays	IMRE1SS16/PLC	IMRE1SS16/E/PLC
With Soldered Relays	IMRE1S16/PLC	IMRE1S16/E/PLC



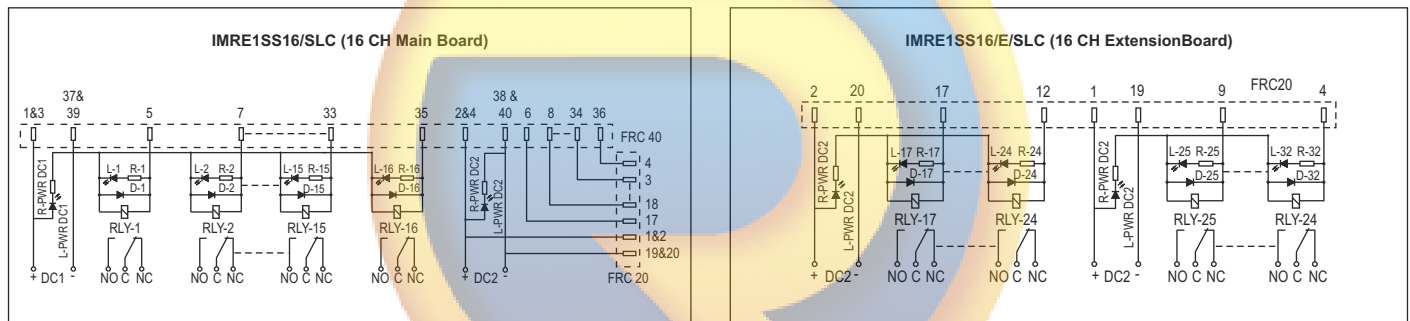
# 32 I/O INTERFACE MODULES for ALLEN BRADLEY SLC 500 PLC

## FEATURES

This module simplifies wiring by accommodating 32 channel signals through a Flat Ribbon Cable Connector. The module is supplied in two parts, as the main module (IMRE1SS16/SLC) and its extension module (IMRE1SS16/E/SLC) along with a 20 core FRC cable to connect them. The module is best suited for interfacing ALLEN BRADLEY SLC 500 PLCs.



## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Supply Voltage Indication	3 mm Green LED
Relay ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-1
Contact Type	1CO (SPDT)
Standard Coil Voltage	24VDC
	(Relay coil voltages like 6 VDC, 12 VDC, 48 DC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgCdO
Rated Current	10A @230 VAC; 10 @30 VDC

### IDC / FRC CONNECTOR DATA

Insulation Material	PBT, Glass Reinforced
Contact Material	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric withstanding Voltage	500VAC for 1 minute

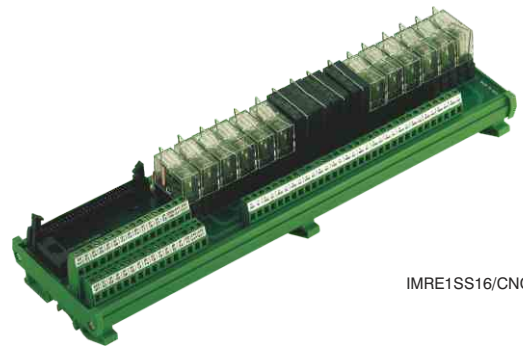
## ORDERING INFORMATION

Module Type	16 CH Main Board	16 CH Extension Board
With Pluggable Relays	IMRE1SS16/SLC	IMRE1SS16/E/SLC
With Soldered Relays	IMRE1S16/SLC	IMRE1S16/E/SLC

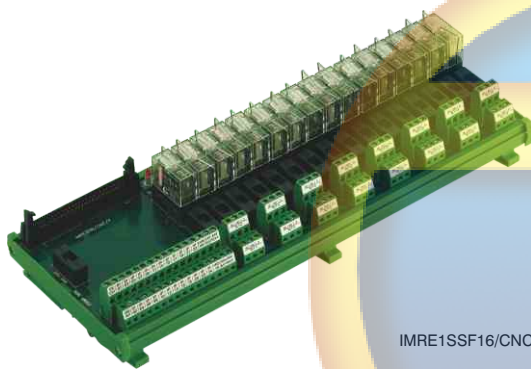
# CNC INTERFACE MODULES

## FEATURES

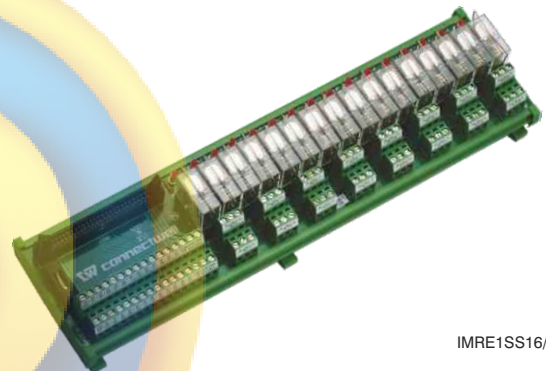
IMRE1SS16/CNC and IMRE1SS16/CNCSSRx Interface Modules from Connectwell ease PLC wiring in CNC machines. These modules provide connection possibility for both the input and output side of a PLC in a single module and are compatible with various PLCs from Fanuc, GE, Mitsubishi, Schneider & Siemens.



IMRE1SS16/CNCSSRx



IMRE1SS16/CNC



IMRE1SS16/CNC

## TECHNICAL INFORMATION

### GENERAL DATA

Relay ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### IDC / FRC CONNECTOR DATA

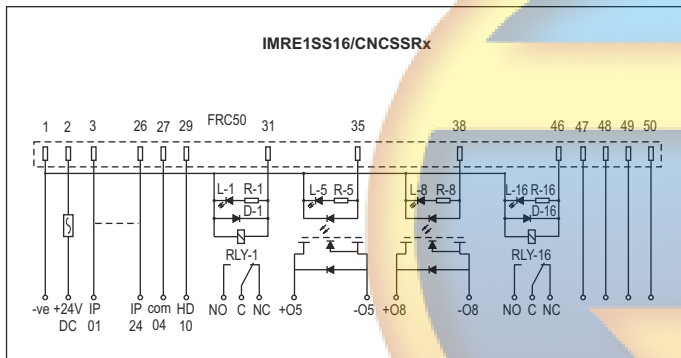
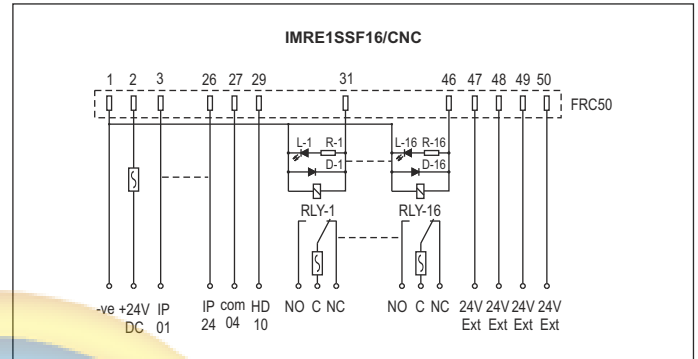
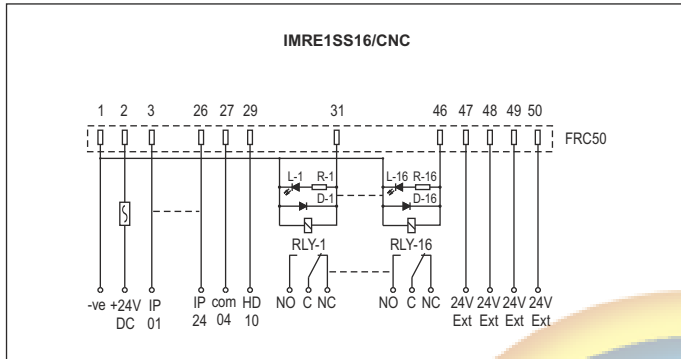
Insulation Material	PBT, Glass Reinforced
Contact Material	Brass
Rated Current	2A
Contact Resistance	30m ohms maximum
Insulation Resistance	3000M ohms minimum
Dielectric withstanding Voltage	500VAC for 1 minute
Relay Make / Series	OMRON/G2R-1
Contact Type	1CO (SPDT)
Standard Coil Voltage	24VDC (Relay coil voltages like 6 VDC, 12 VDC, 48 VDC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgCdO
Rated Current	10A @230 VAC; 10 @30 VDC

<b>FUSE HOLDER DATA</b>	Cap Design	Flat
	Fuse Link Size	5 x 20 mm
	Mounting Style	Horizontal
	Rated Current	6.3 A

<b>FUSE DATA</b>	Fuse Size	5 x 20 mm
	Fuse Type	Fast Blow/Slow Blow
	Fuse Ratings (A)	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3

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Circuit Diagrams



ORDERING INFORMATION

Module Type	CNC Module	CNC SSR Module	CNC with Fuse Module
With Pluggable Relays	IMRE1SS16/CNC	IMRE1SS16/CNCSSRx	IMRE1SSF16/CNC
With Soldered Relays	IMRE1S16/CNC	IMRE1S16/CNCSSRx	IMRE1SF16/CNC

x - no. of SSR

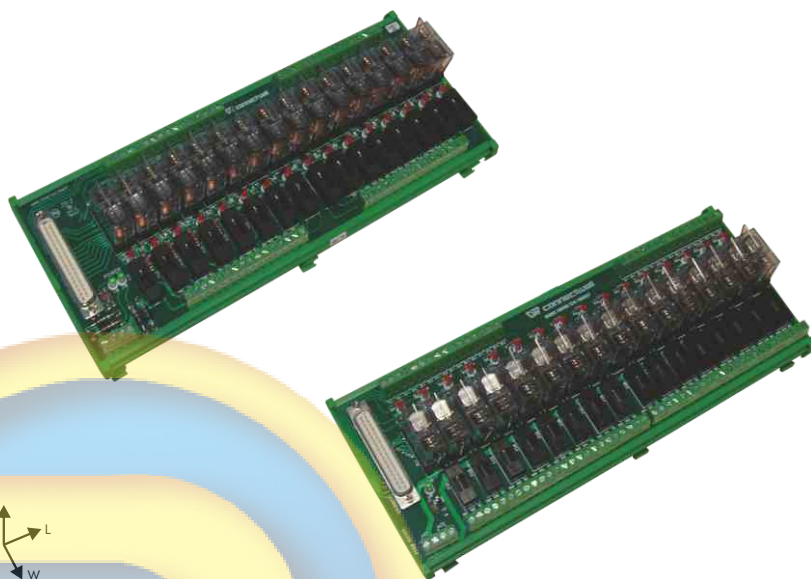
# DIGITAL INPUT & DIGITAL OUTPUT RELAY MODULES

These modules act as input or output modules for PLCs or other digital controllers. The digital output (DO) modules have the added convenience of providing trigger / switching signal to the relays from the PLC by use of a DSUB Connector.

The digital input (DI) modules provide isolation between two wire field sensors and the input of controllers like PLC. In addition the connection between the digital input module and the PLC is through a convenient DSUB Connector.

Both of these modules have an added safety feature of glass fuses. The power terminals on the modules help provide power signal to either the load (DO) or the sensors (DI).

In addition to the DSUB Connector, standard PCB Terminal Blocks are also provided for connecting the input signals.



## TECHNICAL INFORMATION

GENERAL DATA		Channels other than specified are available on request
Number of Channels	16	
Width W (mm)	120	
Height H (mm)	74	
Length L (mm)*	261	
Power ON Indication	3 mm Red LED	
Relay Protection	Using 1N4007 Freewheeling Diode.	
Ambient Temperature (Operation)	-20° C ... 50° C	
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**	
Housing Insulation Material	PVC / V0 Grade	
Housing Colour	Green	

CONNECTION DATA (SCREW TERMINAL)	
Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

DSUB CONNECTOR ELECTRICAL RATINGS	
Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	3A Max
Operation Voltage	250 VAC
Dielectric Withstanding Voltage	1000 VAC for one minute
Number of Contacts	37 (This varies based on no. of channels)

DSUB CONNECTOR MATERIALS	
Insulator	PBT, Rated UL94V-0
Contacts	Brass
Shell	Steel
Rivet, Boardlock	Copper Alloy

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

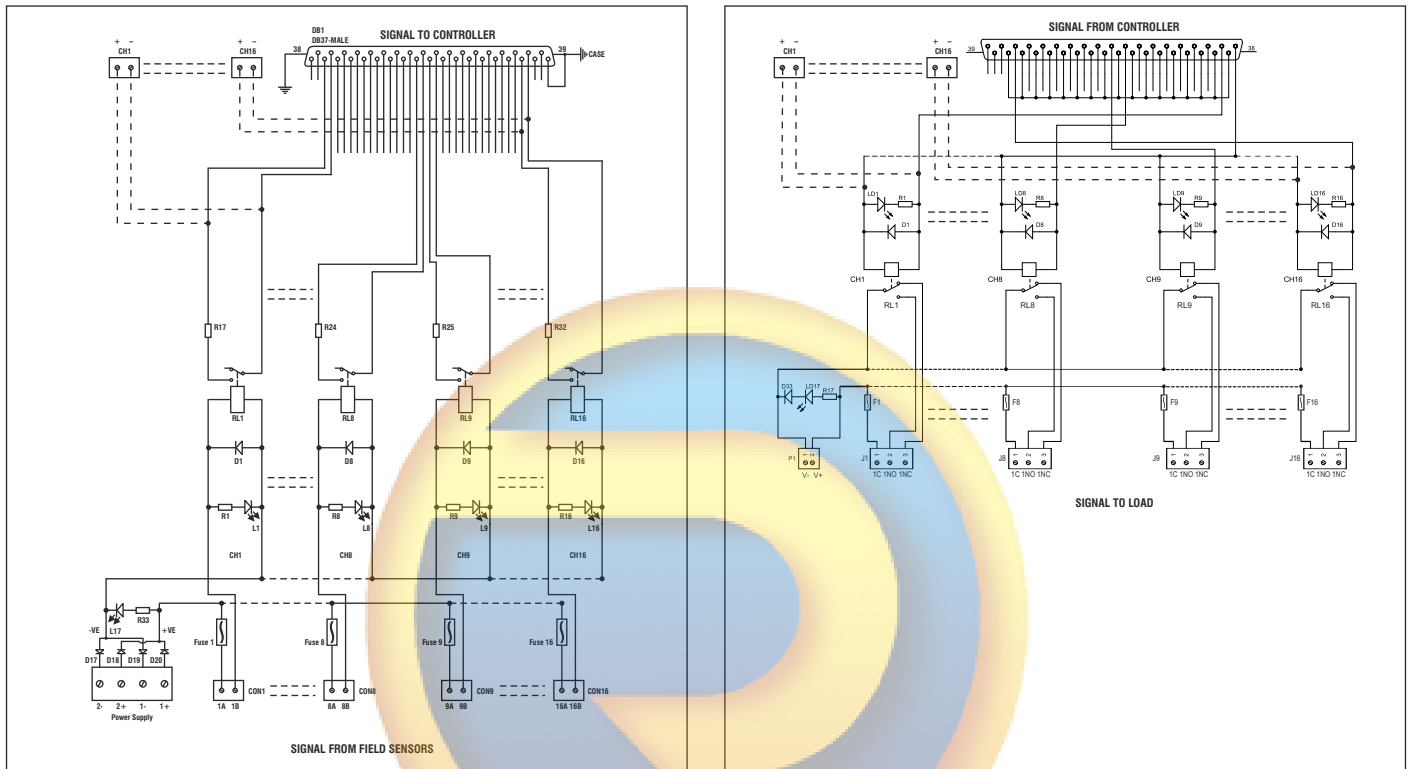
RELAY DATA		(Relays other than OMRON are available on request.)	
Relay Make / Series	OMRON/G2R-1	OMRON/G2R-2	
Contact Type	1CO (SPDT)	2CO (DPDT)	
Rated Current	10A @230 VAC;	5A @230 VAC;	
	10A @30 VDC	5A @30 VDC	
Relay Approvals			

RELAY COIL DATA		Voltages other than 24 VDC are available on request.
Rated Coil Voltage	24 VDC	
Coil Resistance (ohms)	1100	
Rated Coil Current (mA)	21.8	
Must Operate Voltage	70% max. of Rated Voltage	
Must Release Voltage	15% max. of Rated Voltage	
Max. Voltage	110% of Rated Voltage	

RELAY CONTACT DATA	
Contact Material	AgCdO
Rated Current	10A @230 VAC; 10A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical	
Operating Frequency	18,000 operations/hr
Max. Electrical	
Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life expectancy	200,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

Circuit Diagram



D-SUB PIN ASSIGNMENT (DI MODULE)

CHANNEL	RELAY INPUT	DSUBM-37	FIELD INPUT
CH1	POS	18	1A 1B
	NEG	36	
CH2	POS	17	2A 2B
	NEG	35	
CH3	POS	16	3A 3B
	NEG	34	
CH4	POS	15	4A 4B
	NEG	33	
CH5	POS	14	5A 5B
	NEG	32	
CH6	POS	13	6A 6B
	NEG	31	
CH7	POS	12	7A 7B
	NEG	30	
CH8	POS	11	8A 8B
	NEG	29	
CH9	POS	10	9A 9B
	NEG	28	
CH10	POS	9	10A 10B
	NEG	27	
CH11	POS	8	11A 11B
	NEG	26	
CH12	POS	7	12A 12B
	NEG	25	
CH13	POS	6	13A 13B
	NEG	24	
CH14	POS	5	14A 14B
	NEG	23	
CH15	POS	4	15A 15B
	NEG	22	
CH16	POS	3	16A 16B
	NEG	21	

D-SUB PIN ASSIGNMENT (DO MODULE)

CHANNEL	DB1	FIELD TERMINAL
CH1	18	1A 1B 1C
CH2	17	2A 2B 2C
CH3	16	3A 3B 3C
CH4	15	4A 4B 4C
CH5	14	5A 5B 5C
CH6	13	6A 6B 6C
CH7	12	7A 7B 7C
CH8	11	8A 8B 8C
CH9	10	9A 9B 9C
CH10	9	10A 10B 10C
CH11	8	11A 11B 11C
CH12	7	12A 12B 12C
CH13	6	13A 13B 13C
CH14	5	14A 14B 14C
CH15	4	15A 15B 15C
CH16	3	16A 16B 16C

DB1\_21~37 SHORT, DB1\_19:24V  
DB1\_1, 2 AND 20: NULL

DB1\_PIN 1, 38 & 39: GND, PIN 19, 37, 2 & 20: NULL

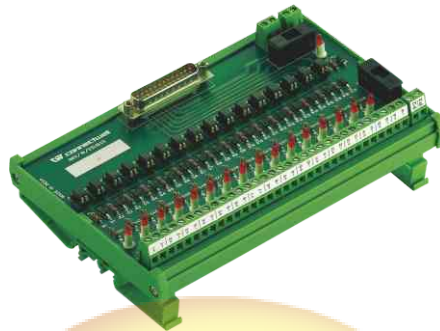
ORDERING INFORMATION

Type of Module	With Pluggable Relays
16 Channel DI Module	IMRE/DI16/24/DM37
16 Channel DO Module	IMRE/DO16/24/DM37

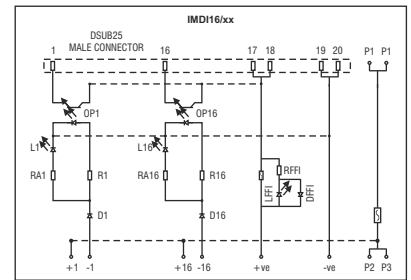
# DIGITAL INPUT MODULE WITH OPTICAL ISOLATION

## FEATURES

- Interface between PLC and Sensors
- 16 Channel input can be achieved
- Protection: Diode polarity protection
- Isolation: Opto isolation between PLC and Sensors.
- Easy to replace opto couplers (Pluggable).
- LED indication for signal input
- Fuse fail indication for main supply.



## Circuit Diagrams



## TECHNICAL INFORMATION

### GENERAL DATA

Signal on Indication	3 mm Red LED
Input Polarity Protection	Using 1N 4007 Diode
Isolation (Input to Output)	Using Pluggable Opto Coupler
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Sonnection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### DSUB CONNECTOR DATA

Contact Resistance	15 m ohm maximum at 500VDC
Current Rating	3A Max
Operation Voltage	250VAC
Dielectric Withstanding Voltage	1000VAC for one minute
Number of Contacts	25

### DSUB CONNECTOR MATERIALS

Insulator	PBT, Rated UL94V-0
Contacts	Brass
Shell	Steel
Rivet, boardlock	Copper Alloy

## ORDERING INFORMATION

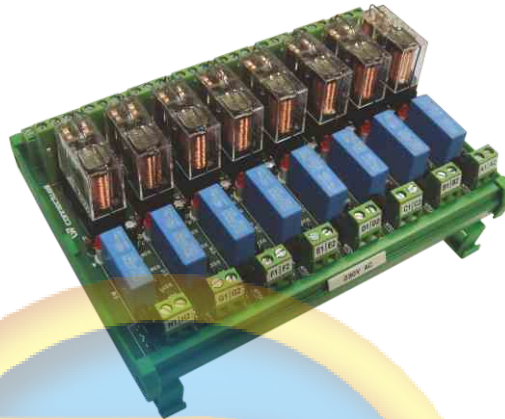
Module Type	24 VDC Input	Digital Input Module Cat. No.	IMDI/16/24
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# 1 CO RELAY MODULE RECTIFIER VERSION (SPDT)

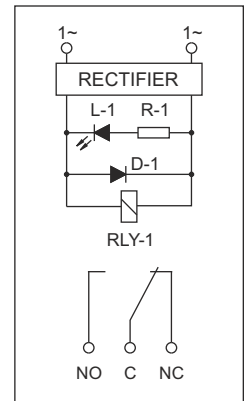
## FEATURES

- Allows an input voltage of 110 VAC & 230 VAC.
- An economical option to standard 110 VAC & 230 VAC modules.
- Operating Voltages 110 & 230 VAC
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuators / sensors. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

Circuit Diagram



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	88	88	88	88	88
Height (mm)	74	74	74	74	74
Length (mm)*	23	36	70	130	270

Channels other than specified are available on request

Positive Bussing Possibility	-
Negative Bussing Possibility	-
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-1 (Relays other than OMRON make are available on request.)
Contact Type	1CO (SPDT)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	110 VAC	230 VAC
Coil Resistance (ohms)	4600	26850
Rated Coil Current (mA)	11.0	4.7
Must Operate Voltage	80% max. of rated voltage	
Must Release Voltage	30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage	

### RELAY CONTACT DATA

Contact Material	AgCdO
Rated Current	10A @230 VAC; 10A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical	18,000 operations/hr
Operating Frequency	
Max. Electrical	1,800 operations/hr (under rated load)
Operating Frequency	
Mechanical Life expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

## ORDERING INFORMATION

## 110 VAC - 1 CO (SPDT) Relay modules

# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/110A/RECT	IMRE1S1/110A/RECT
2	IMRE1SS2/110A/RECT	IMRE1S2/110A/RECT
4	IMRE1SS4/110A/RECT	IMRE1S4/110A/RECT
8	IMRE1SS8/110A/RECT	IMRE1S8/110A/RECT
16	IMRE1SS16/110A/RECT	IMRE1S16/110A/RECT

## 230 VAC - 1 CO (SPDT) Relay modules

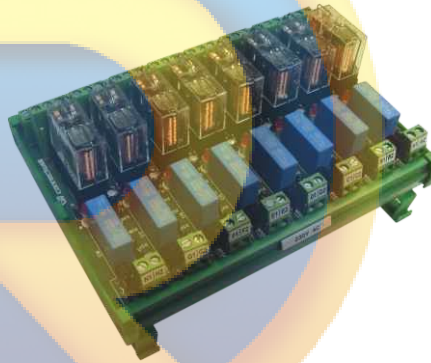
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE1SS1/230A/RECT	IMRE1S1/230A/RECT
2	IMRE1SS2/230A/RECT	IMRE1S2/230A/RECT
4	IMRE1SS4/230A/RECT	IMRE1S4/230A/RECT
8	IMRE1SS8/230A/RECT	IMRE1S8/230A/RECT
16	IMRE1SS16/230A/RECT	IMRE1S16/230A/RECT

## 1 NO RELAY MODULE RECTIFIER VERSION (SPDT)

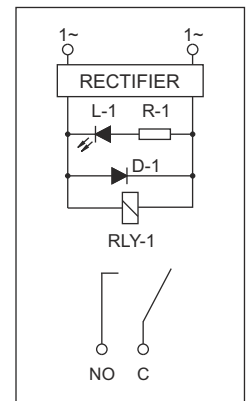
Relay Modules with only 1 NO (SPST) contacts are available on request.

## GENERAL DATA

Relay Make / Series	G2R-A1
Contact Type	1 NO
Output Current	10 A
Output Voltage	230 VAC, 30 VDC



Circuit Diagram



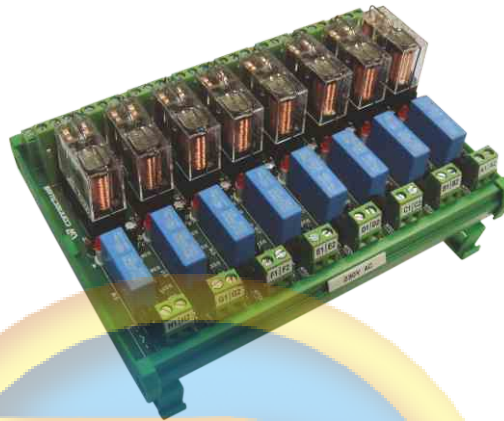
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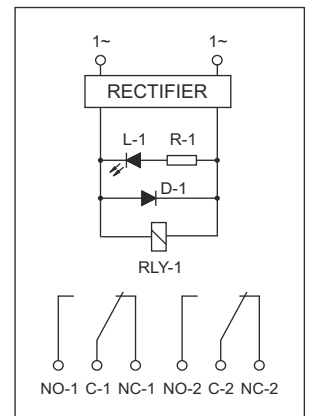
# 2 CO RELAY MODULE RECTIFIER VERSION (DPDT)

## FEATURES

- Allows an input voltage of 110 VAC & 230 VAC.
- An economical option to standard 110 VAC & 230 VAC modules.
- Variety of Operating Voltages.
- Switching Current upto 5 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- LED Indication to denote relay actuation.
- Relay Coil Protection by means of a Freewheeling Diode.
- Mounting Options available: DIN Rail mounting & Panel mounting.



Circuit Diagram



Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuators / sensors. These modules provides electrical isolation between control and load circuits with the help of electro-mechanical relays.

## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	88	88	88	88	88
Height (mm)	74	74	74	74	74
Length (mm)*	26	45	83	160	315

Channels other than specified are available on request

Positive Bussing Possibility	-
Negative Bussing Possibility	-
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... 50° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL**
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

### CONNECTION DATA

Type of Connection	Screw connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

### RELAY DATA

Relay Make / Series	OMRON/G2R-2
Contact Type	2CO (DPDT)
Relay Approvals	

### RELAY COIL DATA

Rated Coil Voltage	110 VAC	230 VAC
Coil Resistance (ohms)	4600	26850
Rated Coil Current (mA)	11.0	4.7
Must Operate Voltage	80% max. of rated voltage	
Must Release Voltage	30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage	

### RELAY CONTACT DATA

Contact Material	AgCdO
Rated Current	5A @230 VAC; 5A @30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)

\* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

\*\* PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

**ORDERING INFORMATION**

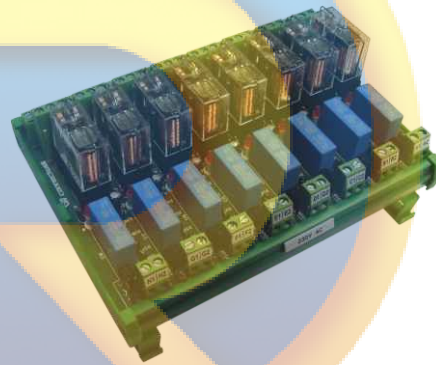
110 VAC - 2 CO (DPDT) Relay modules		
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/110A/RECT	IMRE2S1/110A/RECT
2	IMRE2SS2/110A/RECT	IMRE2S2/110A/RECT
4	IMRE2SS4/110A/RECT	IMRE2S4/110A/RECT
8	IMRE2SS8/110A/RECT	IMRE2S8/110A/RECT
16	IMRE2SS16/110A/RECT	IMRE2S16/110A/RECT

230 VAC - 2 CO (DPDT) Relay modules		
# of Channels	With Pluggable Relays	With Soldered Relays
1	IMRE2SS1/230A/RECT	IMRE2S1/230A/RECT
2	IMRE2SS2/230A/RECT	IMRE2S2/230A/RECT
4	IMRE2SS4/230A/RECT	IMRE2S4/230A/RECT
8	IMRE2SS8/230A/RECT	IMRE2S8/230A/RECT
16	IMRE2SS16/230A/RECT	IMRE2S16/230A/RECT

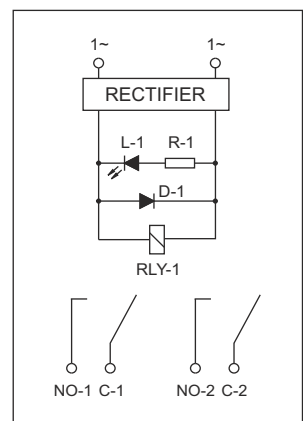
2 NO RELAY MODULE RECTIFIER VERSION (DPDT)

Relay Modules with only 1 NO (SPST) contacts are available on request.

GENERAL DATA	
Relay Make / Series	G2R-A1
Contact Type	1 NO
Output Current	10 A
Output Voltage	230 VAC, 30 VDC



Circuit Diagram



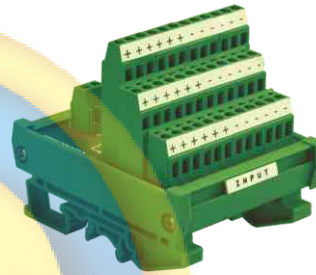
# CUSTOMIZED INTERFACE MODULES

Standard Interface Modules can be customized with Spring type PCB Terminal Blocks for faster connection >



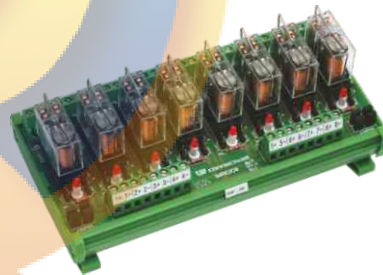
25 Pin Male D-Sub module with Spring Connections

Interface Modules can be built for specific applications like Control Signal distribution >



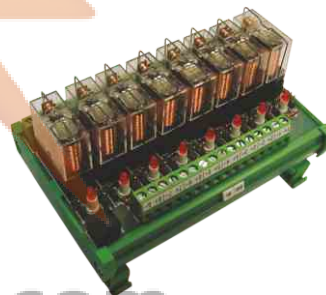
Triple level distribution module for powering-up sensors & actuators

Relay Modules can be made for specific contact types such as 1 NO & 2 NO >



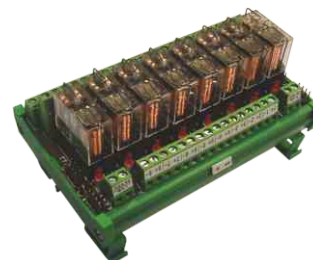
8 Channel 2 NO Electro Mechanical Relay Module

Economical relay module >



8 Channel 1 CO AC / DC Economical Relay Module

Economical relay module >



8 Channel 2 CO AC / DC Economical Relay Module

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# ACCESSORIES

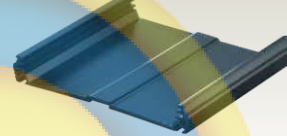
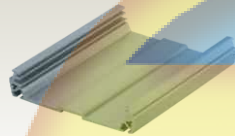
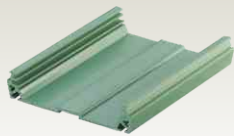
## Interface Module Accessories for Housing 73 mm & 108 mm width PCB Circuits

Connectwell uses V0 grade PVC Mounting Tracks for housing its Interface Modules. These tracks are used with a combination of Mounting Feet & End Sections to achieve DIN Rail mounting and panel mounting. The Mounting Tracks are available in standard lengths of 1 or 2 meters and can be precisely cut to required lengths. Alternately Connectwell can provide kits with pre-cut track lengths, End Sections, Mounting Feet & Screws.

## MOUNTING TRACK

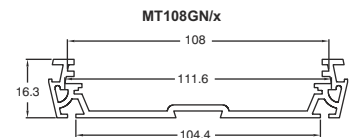
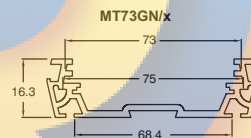
Mounting Track for 73 mm PCB Circuits

Mounting Track for 108 mm PCB Circuits



### Technical Information

Standard Length	1 m or 2 m (Precut Lengths of Mounting Track available on request)
Mounting Track Material	PVC
Short Term Temperature	80°C
Continuous Temperature	70°C



### Ordering Information

73 mm Mounting Track	GREEN	GREY	BLACK	ORANGE	108 mm Mounting Track	GREEN	GREY	BLACK	ORANGE
1 mtr Length	MT73GN/1	MT73G/1	MT73BK/1	MT73O/1	1 mtr Length	MT108GN/1	MT108G/1	MT108BK/1	MT108O/1
2 mtr Length	MT73GN/2	MT73G/2	MT73BK/2	MT73O/2	2 mtr Length	MT108GN/2	MT108G/2	MT108BK/2	MT108O/2

Note: Tracks accept Standard 'K' Marking Tags for identification.

## MOUNTING FEET

Mounting Feet for 73 mm Mounting Track

Mounting Feet for 108 mm Mounting Track



### Technical Information

Mounting Track Material	
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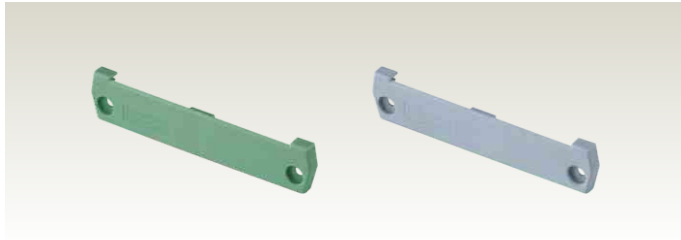
Polyamide 66	
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### Ordering Information

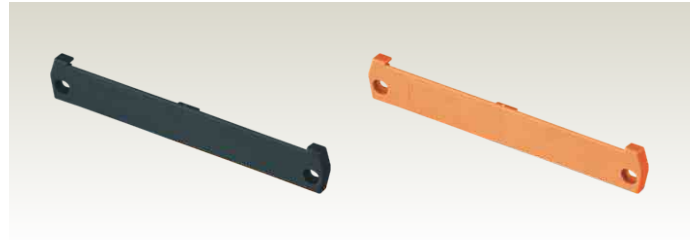
73 mm Mounting Feet	GREEN	GREY	BLACK	ORANGE	108 mm Mounting Feet	GREEN	GREY	BLACK	ORANGE
Cat. No.	MFMT73GN	MFMT73G	MFMT73BK	MFMT73O	Cat. No.	MFMT108GN	MFMT108G	MFMT108BK	MFMT108O

## END SECTION (RAIL MOUNTING)

End Section (Rail Mounting) for 73 mm Mounting Track



End Section (Rail Mounting) for 108 mm Mounting Track



### Technical Information

Mounting Track Material

Polyamide 66

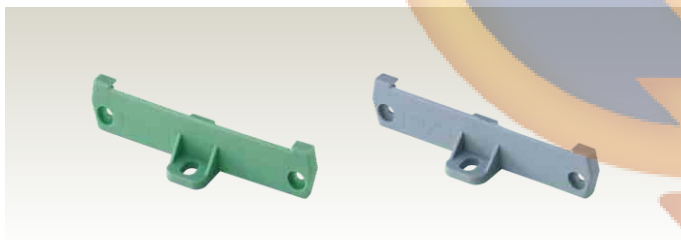
### Ordering Information

Rail End Section 73 mm	GREEN	GREY	BLACK	ORANGE	Rail End Section 108 mm	GREEN	GREY	BLACK	ORANGE
Cat. No.	ESMT73GN	ESMT73G	ESMT73BK	ESMT73O	Cat. No.	ESMT108GN	ESMT108G	ESMT108BK	ESMT108O

Note: ESMT are supplied with a set of screws used to fix them on to the Mounting Track.

## END SECTION (PANEL MOUNTING)

End Section (Panel Mounting) for 73 mm Mounting Track



End Section (Panel Mounting) for 108 mm Mounting Track



### Technical Information

Mounting Track Material

Polyamide 66

### Ordering Information

Panel End Section 73 mm	GREEN	GREY	BLACK	ORANGE	Panel End Section 108 mm	GREEN	GREY	BLACK	ORANGE
Cat. No.	ESPMT73GN	ESPMT73G	ESPMT73BK	ESPMT73O	Cat. No.	ESPMT108GN	ESPMT108G	ESPMT108BK	ESPMT108O

Note: ESPMT are supplied with a set of screws used to fix them on to the Mounting Track.

## MOUNTING TRACK ASSEMBLIES

Channel Mounting Track Assembly




Panel Mounting Track Assembly



Ready to use, cut-length assemblies of Mounting Track along with ESMTs / ESPMTs and MFMTs are available on request.

# PCB TERMINAL BLOCKS PRODUCT OVERVIEW

Connectwell now offers an exhaustive range of PCB Terminal Blocks to suit all your Electronic Connection needs.

<p><b>Single Level Vertical</b></p>  <p>3.5 / 3.81 / 5 / 5.08 / 7.5 / 9.52 / 10.16 / 15 mm 0.5 - 10 sq.mm, upto 125 A</p>	<p><b>Single Level Horizontal</b></p>  <p>3.5 / 3.81 / 5 / 5.08 / 7.5 mm 0.5 - 2.5 sq.mm, upto 20 A</p>	<p><b>Single Level Angular</b></p>  <p>5 / 5.08 mm 0.5 - 2.5 sq.mm, 45°, upto 16 A</p>	<p><b>Double Level</b></p>  <p>3.5 / 3.81 / 5 / 5.08 mm 0.5 - 2.5 sq.mm, upto 16 A</p>
<p><b>TLM303</b></p>  <p>5.08 x 14.3 x 13 mm 0.5 - 2.5 sq.mm 15 A, 300 V</p>	<p><b>CPT(M)H / A / V</b></p>  <p>5.08 mm Upto 2.5 sq.mm 16 A, 250 V, 0.4 Nm</p>	<p><b>CPT5 / CPT7.5</b></p>  <p>19 x 19 x 5 / 7.5 mm 0.5 - 2.5 sq.mm 18 A, 250 V, 0.4 Nm</p>	<p><b>DDPT</b></p>  <p>28 x 22 x 11 mm 0.5 - 2.5 sq.mm 24 A, 300 V, 1.2 Nm</p>
<p><b>Triple Level</b></p>  <p>5.08 mm 0.5 - 2.5 sq.mm, upto 16 A</p>	<p><b>SHxx</b></p>  <p>3.5 / 3.81 / 5 / 5.08 mm 0.5 - 2.5 sq.mm upto 16 A, 0.5 Nm</p>	<p><b>SVxx-F/SVxx-P</b></p>  <p>5.08 mm 0.5 - 2.5 sq.mm upto 16 A, 0.5 Nm</p>	<p><b>TL205T / TL205P</b></p>  <p>5 mm 0.5 - 1.5 sq.mm upto 10 A, 0.4 Nm</p>
<p><b>PVxx / PVxx-P</b></p>  <p>3.5 / 3.81 / 5 / 5.08 mm upto 16 A</p>	<p><b>PHxx / PHxx-P</b></p>  <p>3.5 / 3.81 / 5 / 5.08 mm upto 16 A</p>	<p><b>PIxx / PIxx-P</b></p>  <p>5.08 mm upto 16 A</p>	<p><b>SFxx</b></p>  <p>5.08 mm upto 16 A</p>

For detailed technical & ordering information please refer our PCB Terminal Blocks Catalogue 09-10

Index	Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No
The Index gives ready reference of Cat. No. / Type and cross reference of page number.	IMD/CA/14	41	IMER1/5D125D2	25	IMERS16/5D125D2	25
	IMD/CA/22	41	IMER1/5D400A3	25	IMERS16/5D400A3	25
	IMD/CA/6	41	IMER16/12D125D2	25	IMERS2/12D125D2	25
	IMD/CK/14	41	IMER16/12D400A3	25	IMERS2/12D400A3	25
	IMD/CK/22	41	IMER16/24D125D2	25	IMERS2/24D125D2	25
	IMD/CK/6	41	IMER16/24D400A3	25	IMERS2/24D400A3	25
	IMD/S/12	41	IMER16/5D125D2	25	IMERS2/5D125D2	25
	IMD/S/16	41	IMER16/5D400A3	25	IMERS2/5D400A3	25
	IMD/S/20	41	IMER2/12D125D2	25	IMERS4/12D125D2	25
	IMD/S/24	41	IMER2/12D400A3	25	IMERS4/12D400A3	25
	IMD/S/4	41	IMER2/24D125D2	25	IMERS4/24D125D2	25
	IMD/S/8	41	IMER2/24D400A3	25	IMERS4/24D400A3	25
	IMDI/16/24	52	IMER2/5D125D2	25	IMERS4/5D125D2	25
	IMDLT/DC/CA/10	41	IMER2/5D400A3	25	IMERS4/5D400A3	25
	IMDLT/DC/CA/12	41	IMER4/12D125D2	25	IMERS8/12D125D2	25
	IMDLT/DC/CA/16	41	IMER4/12D400A3	25	IMERS8/12D400A3	25
	IMDLT/DC/CA/5	41	IMER4/24D125D2	25	IMERS8/24D125D2	25
	IMDLT/DC/CK/10	41	IMER4/24D400A3	25	IMERS8/24D400A3	25
	IMDLT/DC/CK/12	41	IMER4/5D125D2	25	IMERS8/5D125D2	25
	IMDLT/DC/CK/5	41	IMER4/5D400A3	25	IMERS8/5D400A3	25
	IMDLT/DC/S/10	41	IMER8/12D125D2	25	IMERSF1/12D125D2	25
	IMDLT/DC/S/5	41	IMER8/12D400A3	25	IMERSF1/12D400A3	25
	IMDLT/DC/S/6	41	IMER8/24D125D2	25	IMERSF1/24D125D2	25
	IMDSUBF/15/H	37	IMER8/24D400A3	25	IMERSF1/24D400A3	25
	IMDSUBF/15/L1	37	IMER8/5D125D2	25	IMERSF1/5D125D2	25
	IMDSUBF/15/S	37	IMER8/5D400A3	25	IMERSF1/5D400A3	25
	IMDSUBF/15/SC	37	IMERF1/12D125D2	25	IMERSF16/12D125D2	25
	IMDSUBF/25/H	37	IMERF1/12D400A3	25	IMERSF16/12D400A3	25
	IMDSUBF/25/L1	37	IMERF1/24D125D2	25	IMERSF16/24D125D2	25
	IMDSUBF/25/S	37	IMERF1/24D400A3	25	IMERSF16/24D400A3	25
	IMDSUBF/25/SC	37	IMERF1/5D125D2	25	IMERSF16/5D125D2	25
	IMDSUBF/37/H	37	IMERF1/5D400A3	25	IMERSF16/5D400A3	25
	IMDSUBF/37/L1	37	IMERF16/12D125D2	25	IMERSF2/12D125D2	25
	IMDSUBF/37/S	37	IMERF16/12D400A3	25	IMERSF2/12D400A3	25
	IMDSUBF/50/H	37	IMERF16/24D125D2	25	IMERSF2/24D125D2	25
	IMDSUBF/50/L1	37	IMERF16/24D400A3	25	IMERSF2/24D400A3	25
	IMDSUBF/50/S	37	IMERF16/5D125D2	25	IMERSF2/5D125D2	25
	IMDSUBF/50/SC	37	IMERF16/5D400A3	25	IMERSF2/5D400A3	25
	IMDSUBF/9/H	37	IMERF2/12D125D2	25	IMERSF4/12D125D2	25
	IMDSUBF/9/L1	37	IMERF2/12D400A3	25	IMERSF4/12D400A3	25
	IMDSUBF/9/S	37	IMERF2/24D125D2	25	IMERSF4/24D125D2	25
	IMDSUBF/9/SC	37	IMERF2/24D400A3	25	IMERSF4/24D400A3	25
	IMDSUBM/15/H	37	IMERF2/5D125D2	25	IMERSF4/5D125D2	25
	IMDSUBM/15/L1	37	IMERF2/5D400A3	25	IMERSF4/5D400A3	25
	IMDSUBM/15/S	37	IMERF4/12D125D2	25	IMERSF8/12D125D2	25
	IMDSUBM/15/SC	37	IMERF4/12D400A3	25	IMERSF8/12D400A3	25
	IMDSUBM/25/H	37	IMERF4/24D125D2	25	IMERSF8/24D125D2	25
	IMDSUBM/25/L1	37	IMERF4/24D400A3	25	IMERSF8/24D400A3	25
	IMDSUBM/25/S	37	IMERF4/5D125D2	25	IMERSF8/5D125D2	25
	IMDSUBM/25/SC	37	IMERF4/5D400A3	25	IMERSF8/5D400A3	25
	IMDSUBM/37/H	37	IMERF8/12D125D2	25	IMF/16/S	42
	IMDSUBM/37/L1	37	IMERF8/12D400A3	25	IMF/2/S	42
	IMDSUBM/37/S	37	IMERF8/24D125D2	25	IMF/4/S	42
	IMDSUBM/37/SC	37	IMERF8/24D400A3	25	IMF/8/S	42
	IMDSUBM/50/H	37	IMERF8/5D125D2	25	IMFI/16/S/110	42
	IMDSUBM/50/L1	37	IMERF8/5D400A3	25	IMFI/16/S/230	42
	IMDSUBM/50/S	37	IMERS1/12D125D2	25	IMFI/16/S/24	42
	IMDSUBM/50/SC	37	IMERS1/12D400A3	25	IMFI/2/S/110	42
	IMDSUBM/9/H	37	IMERS1/24D125D2	25	IMFI/2/S/230	42
	IMDSUBM/9/L1	37	IMERS1/24D400A3	25	IMFI/2/S/24	42
	IMDSUBM/9/S	37	IMERS1/5D125D2	25	IMFI/4/S/110	42
	IMDSUBM/9/SC	37	IMERS1/5D400A3	25	IMFI/4/S/230	42
	IMER1/12D125D2	25	IMERS16/12D125D2	25	IMFI/4/S/24	42
	IMER1/12D400A3	25	IMERS16/12D400A3	25	IMFI/8/S/110	42
	IMER1/24D125D2	25	IMERS16/24D125D2	25	IMFI/8/S/230	42
	IMER1/24D400A3	25	IMERS16/24D400A3	25	IMFI/8/S/24	42

Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No
IMDC/10/H/L	35	IMRE1S1/12/OM	3	IMRE1SF16/24/OM	19	IMRE1SFI8/12/1	19
IMDC/10/L1/L	35	IMRE1S1/12/OM/N	9	IMRE1SF16/CNC	49	IMRE1SFI8/12/2	19
IMDC/10/S/L	35	IMRE1S1/230A/OM	3	IMRE1SF2/110A/OM	20	IMRE1SFI8/12/3	19
IMDC/10/SC/L	35	IMRE1S1/230A/OM/N	9	IMRE1SF2/12/OM	19	IMRE1SFI8/230A/1	20
IMDC/14/H/L	35	IMRE1S1/230A/RECT	54	IMRE1SF2/230A/OM	20	IMRE1SFI8/230A/2	20
IMDC/14/L1/L	35	IMRE1S1/24/OM	3	IMRE1SF2/24/OM	19	IMRE1SFI8/230A/3	20
IMDC/14/S/L	35	IMRE1S1/24/OM/N	9	IMRE1SF4/110A/OM	20	IMRE1SFI8/24/1	19
IMDC/14/SC/L	35	IMRE1S1/24A/RECT	13	IMRE1SF4/12/OM	19	IMRE1SFI8/24/2	19
IMDC/16/H/L	35	IMRE1S16/110A/OM	3	IMRE1SF4/230A/OM	20	IMRE1SFI8/24/3	19
IMDC/16/L1/L	35	IMRE1S16/110A/OM/N	9	IMRE1SF4/24/OM	19	IMRE1SS1/110A/OM	3
IMDC/16/S/L	35	IMRE1S16/110A/RECT	54	IMRE1SF8/110A/OM	20	IMRE1SS1/110A/OM/N	9
IMDC/16/SC/L	35	IMRE1S16/12/OM	3	IMRE1SF8/12/OM	19	IMRE1SS1/110A/RECT	54
IMDC/20/H/L	35	IMRE1S16/12/OM/N	9	IMRE1SF8/230A/OM	20	IMRE1SS1/12/OM	3
IMDC/20/L1/L	35	IMRE1S16/230A/OM	3	IMRE1SF8/24/OM	19	IMRE1SS1/12/OM/N	9
IMDC/20/S/L	35	IMRE1S16/230A/OM/N	9	IMRE1SFI1/110A/1	20	IMRE1SS1/230A/OM	3
IMDC/20/SC/L	35	IMRE1S16/230A/RECT	54	IMRE1SFI1/110A/2	20	IMRE1SS1/230A/OM/N	9
IMDC/26/H/L	35	IMRE1S16/24/IDC20	45	IMRE1SFI1/110A/3	20	IMRE1SS1/230A/RECT	54
IMDC/26/L1/L	35	IMRE1S16/24/OM	3	IMRE1SFI1/12/1	19	IMRE1SS1/24/OM	3
IMDC/26/S/L	35	IMRE1S16/24/OM/N	9	IMRE1SFI1/12/2	19	IMRE1SS1/24/OM/N	9
IMDC/26/SC/L	35	IMRE1S16/24A/RECT	13	IMRE1SFI1/12/3	19	IMRE1SS1/24A/RECT	13
IMDC/34/H/L	35	IMRE1S16/CNC	49	IMRE1SFI1/230A/1	20	IMRE1SS16/110A/OM	3
IMDC/34/L1/L	35	IMRE1S16/CNCSSRx	49	IMRE1SFI1/230A/2	20	IMRE1SS16/110A/OM/N	9
IMDC/34/S/L	35	IMRE1S16/E/PLC	46	IMRE1SFI1/230A/3	20	IMRE1SS16/110A/RECT	54
IMDC/34/SC/L	35	IMRE1S16/E/SLC	47	IMRE1SFI1/24/1	19	IMRE1SS16/12/OM	3
IMDC/40/H/L	35	IMRE1S16/PLC	46	IMRE1SFI1/24/2	19	IMRE1SS16/12/OM/N	9
IMDC/40/L1/L	35	IMRE1S16/SLC	47	IMRE1SFI1/24/3	19	IMRE1SS16/230A/OM	3
IMDC/40/S/L	35	IMRE1S2/110A/OM	3	IMRE1SFI16/110A/1	20	IMRE1SS16/230A/OM/N	9
IMDC/40/SC/L	35	IMRE1S2/110A/OM/N	9	IMRE1SFI16/110A/2	20	IMRE1SS16/230A/RECT	54
IMDC/50/H/L	35	IMRE1S2/110A/RECT	54	IMRE1SFI16/110A/3	20	IMRE1SS16/24/DM37	17
IMDC/50/L1/L	35	IMRE1S2/12/OM	3	IMRE1SFI16/12/1	19	IMRE1SS16/24/IDC20	45
IMDC/50/S/L	35	IMRE1S2/12/OM/N	9	IMRE1SFI16/12/2	19	IMRE1SS16/24/OM	3
IMDC/50/SC/L	35	IMRE1S2/230A/OM	3	IMRE1SFI16/12/3	19	IMRE1SS16/24/OM/N	9
IMDC/60/H/L	35	IMRE1S2/230A/OM/N	9	IMRE1SFI16/230A/1	20	IMRE1SS16/24A/RECT	13
IMDC/60/L1/L	35	IMRE1S2/230A/RECT	54	IMRE1SFI16/230A/2	20	IMRE1SS16/CNC	49
IMDC/60/S/L	35	IMRE1S2/24/OM	3	IMRE1SFI16/230A/3	20	IMRE1SS16/CNCSSRx	49
IMDC/60/SC/L	35	IMRE1S2/24/OM/N	9	IMRE1SFI16/24/1	19	IMRE1SS16/E/PLC	46
IMDC/64/H/L	35	IMRE1S2/24A/RECT	13	IMRE1SFI16/24/1	19	IMRE1SS16/E/SLC	47
IMDC/64/L1/L	35	IMRE1S4/110A/OM	3	IMRE1SFI16/24/2	19	IMRE1SS16/PLC	46
IMDC/64/S/L	35	IMRE1S4/110A/OM/N	9	IMRE1SFI16/24/3	19	IMRE1SS16/SLC	47
IMDC/64/SC/L	35	IMRE1S4/110A/RECT	54	IMRE1SFI2/110A/1	20	IMRE1SS2/110A/OM	3
IMMR1SS1/110A	31	IMRE1S4/12/OM	3	IMRE1SFI2/110A/2	20	IMRE1SS2/110A/OM/N	9
IMMR1SS1/230A	31	IMRE1S4/12/OM/N	9	IMRE1SFI2/110A/3	20	IMRE1SS2/110A/RECT	54
IMMR1SS1/24A	31	IMRE1S4/230A/OM	3	IMRE1SFI2/12/1	19	IMRE1SS2/12/OM	3
IMMR2SS1/110A	31	IMRE1S4/230A/OM/N	9	IMRE1SFI2/12/2	19	IMRE1SS2/12/OM/N	9
IMMR2SS1/230A	31	IMRE1S4/230A/RECT	54	IMRE1SFI2/12/3	19	IMRE1SS2/230A/OM	3
IMMR2SS1/24	31	IMRE1S4/24/OM	3	IMRE1SFI2/230A/1	20	IMRE1SS2/230A/OM/N	9
IMMR2SS1/24A	31	IMRE1S4/24/OM/N	9	IMRE1SFI2/230A/2	20	IMRE1SS2/230A/RECT	54
IMMR4SS1/110A	33	IMRE1S4/24A/RECT	13	IMRE1SFI2/230A/3	20	IMRE1SS2/24/OM	3
IMMR4SS1/230A	33	IMRE1S8/110A/OM	3	IMRE1SFI2/24/1	19	IMRE1SS2/24/OM/N	9
IMMR4SS1/24	33	IMRE1S8/110A/OM/N	9	IMRE1SFI2/24/2	19	IMRE1SS2/24A/RECT	13
IMMR4SS1/24A	33	IMRE1S8/110A/RECT	54	IMRE1SFI2/24/3	19	IMRE1SS4/110A/OM	3
IMOPTR8/24P/24P	23	IMRE1S8/12/OM	3	IMRE1SFI4/110A/1	20	IMRE1SS4/110A/OM/N	9
IMOPTRF8/24N/24N	23	IMRE1S8/12/OM/N	9	IMRE1SFI4/110A/2	20	IMRE1SS4/110A/RECT	54
IMRC16/0.22/1K/2W	44	IMRE1S8/230A/OM	3	IMRE1SFI4/110A/3	20	IMRE1SS4/12/OM	3
IMRC16/0.22/470	44	IMRE1S8/230A/OM/N	9	IMRE1SFI4/12/1	19	IMRE1SS4/12/OM/N	9
IMRC16/0.22/470/2W	44	IMRE1S8/230A/RECT	54	IMRE1SFI4/12/2	19	IMRE1SS4/230A/OM	3
IMRC32/0.22/1K/2W	44	IMRE1S8/24/OM	3	IMRE1SFI4/12/3	19	IMRE1SS4/230A/OM/N	9
IMRC32/0.22/470	44	IMRE1S8/24/OM/N	9	IMRE1SFI4/230A/1	20	IMRE1SS4/230A/RECT	54
IMRC32/0.22/470/2W	44	IMRE1S8/24A/RECT	13	IMRE1SFI4/230A/2	20	IMRE1SS4/24/OM	3
IMRE/DI16/24/DM37	51	IMRE1SF1/110A/OM	20	IMRE1SFI4/230A/3	20	IMRE1SS4/24/OM/N	9
IMRE/DO16/24/DM37	51	IMRE1SF1/12/OM	19	IMRE1SFI4/24/1	19	IMRE1SS4/24A/RECT	13
IMRE1O16/24/IDC20	45	IMRE1SF1/230A/OM	20	IMRE1SFI4/24/2	19	IMRE1SS8/110A/OM	3
IMRE1OS16/24/IDC20	45	IMRE1SF1/24/OM	19	IMRE1SFI4/24/3	19	IMRE1SS8/110A/OM/N	9
IMRE1S1/110A/OM	3	IMRE1SF16/110A/OM	20	IMRE1SFI8/110A/1	20	IMRE1SS8/110A/RECT	54
IMRE1S1/110A/OM/N	9	IMRE1SF16/12/OM	19	IMRE1SFI8/110A/2	20	IMRE1SS8/12/OM	3
IMRE1S1/110A/RECT	54	IMRE1SF16/230A/OM	20	IMRE1SFI8/110A/3	20	IMRE1SS8/12/OM/N	9

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Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No
IMRE1SS8/230A/OM	3	IMRE1SSFI4/12/2	19	IMRE2S8/110A/RECT	56	IMRE2SFI4/110A/2	22
IMRE1SS8/230A/OM/N	9	IMRE1SSFI4/12/3	19	IMRE2S8/12/OM	5	IMRE2SFI4/110A/3	22
IMRE1SS8/230A/RECT	54	IMRE1SSFI4/230A/1	20	IMRE2S8/12/OM/N	11	IMRE2SFI4/12/1	21
IMRE1SS8/24/OM	3	IMRE1SSFI4/230A/2	20	IMRE2S8/230A/OM	5	IMRE2SFI4/12/2	21
IMRE1SS8/24/OM/N	9	IMRE1SSFI4/230A/3	20	IMRE2S8/230A/OM/N	11	IMRE2SFI4/12/3	21
IMRE1SS8/24A/RECT	13	IMRE1SSFI4/24/1	19	IMRE2S8/230A/RECT	56	IMRE2SFI4/230A/1	22
IMRE1SSF1/110A/OM	20	IMRE1SSFI4/24/2	19	IMRE2S8/24/OM	5	IMRE2SFI4/230A/2	22
IMRE1SSF1/12/OM	19	IMRE1SSFI4/24/3	19	IMRE2S8/24/OM/N	11	IMRE2SFI4/230A/3	22
IMRE1SSF1/230A/OM	20	IMRE1SSFI8/110A/1	20	IMRE2S8/24A/RECT	15	IMRE2SFI4/24/1	21
IMRE1SSF1/24/OM	19	IMRE1SSFI8/110A/2	20	IMRE2SF1/110A/OM	22	IMRE2SFI4/24/2	21
IMRE1SSF16/110A/OM	20	IMRE1SSFI8/110A/3	20	IMRE2SF1/12/OM	21	IMRE2SFI4/24/3	21
IMRE1SSF16/12/OM	19	IMRE1SSFI8/12/1	19	IMRE2SF1/230A/OM	22	IMRE2SFI8/110A/1	22
IMRE1SSF16/230A/OM	20	IMRE1SSFI8/12/2	19	IMRE2SF1/24/OM	21	IMRE2SFI8/110A/2	22
IMRE1SSF16/24/OM	19	IMRE1SSFI8/12/3	19	IMRE2SF16/110A/OM	22	IMRE2SFI8/110A/3	22
IMRE1SSF16/CNC	49	IMRE1SSFI8/230A/1	20	IMRE2SF16/12/OM	21	IMRE2SFI8/12/1	21
IMRE1SSF2/110A/OM	20	IMRE1SSFI8/230A/2	20	IMRE2SF16/230A/OM	22	IMRE2SFI8/12/2	21
IMRE1SSF2/12/OM	19	IMRE1SSFI8/230A/3	20	IMRE2SF16/24/OM	21	IMRE2SFI8/12/3	21
IMRE1SSF2/230A/OM	20	IMRE1SSFI8/24/1	19	IMRE2SF2/110A/OM	22	IMRE2SFI8/230A/1	22
IMRE1SSF2/24/OM	19	IMRE1SSFI8/24/2	19	IMRE2SF2/12/OM	21	IMRE2SFI8/230A/2	22
IMRE1SSF4/110A/OM	20	IMRE1SSFI8/24/3	19	IMRE2SF2/230A/OM	22	IMRE2SFI8/230A/3	22
IMRE1SSF4/12/OM	19	IMRE2S1/110A/OM	5	IMRE2SF2/24/OM	21	IMRE2SFI8/24/1	21
IMRE1SSF4/230A/OM	20	IMRE2S1/110A/OM/N	11	IMRE2SF4/110A/OM	22	IMRE2SFI8/24/2	21
IMRE1SSF4/24/OM	19	IMRE2S1/110A/RECT	56	IMRE2SF4/12/OM	21	IMRE2SFI8/24/3	21
IMRE1SSF8/110A/OM	20	IMRE2S1/12/OM	5	IMRE2SF4/230A/OM	22	IMRE2SS1/110A/OM	5
IMRE1SSF8/12/OM	19	IMRE2S1/12/OM/N	11	IMRE2SF4/24/OM	21	IMRE2SS1/110A/OM/N	11
IMRE1SSF8/230A/OM	20	IMRE2S1/230A/OM	5	IMRE2SF8/110A/OM	22	IMRE2SS1/110A/RECT	56
IMRE1SSF8/24/OM	19	IMRE2S1/230A/OM/N	11	IMRE2SF8/12/OM	21	IMRE2SS1/12/OM	5
IMRE1SSF1/110A/1	20	IMRE2S1/230A/RECT	56	IMRE2SF8/230A/OM	22	IMRE2SS1/12/OM/N	11
IMRE1SSF1/110A/2	20	IMRE2S1/24/OM	5	IMRE2SF8/24/OM	21	IMRE2SS1/230A/OM	5
IMRE1SSF1/110A/3	20	IMRE2S1/24/OM/N	11	IMRE2SFI1/110A/1	22	IMRE2SS1/230A/OM/N	11
IMRE1SSF1/12/1	19	IMRE2S1/24A/RECT	15	IMRE2SFI1/110A/2	22	IMRE2SS1/230A/RECT	56
IMRE1SSF1/12/2	19	IMRE2S16/110A/OM	5	IMRE2SFI1/110A/3	22	IMRE2SS1/24/OM	5
IMRE1SSF1/12/3	19	IMRE2S16/110A/OM/N	11	IMRE2SFI1/12/1	21	IMRE2SS1/24/OM/N	11
IMRE1SSF1/230A/1	20	IMRE2S16/110A/RECT	56	IMRE2SFI1/12/2	21	IMRE2SS1/24A/RECT	15
IMRE1SSF1/230A/2	20	IMRE2S16/12/OM	5	IMRE2SFI1/12/3	21	IMRE2SS16/110A/OM	5
IMRE1SSF1/230A/3	20	IMRE2S16/12/OM/N	11	IMRE2SFI1/230A/1	22	IMRE2SS16/110A/OM/N	11
IMRE1SSF1/24/1	19	IMRE2S16/230A/OM	5	IMRE2SFI1/230A/2	22	IMRE2SS16/110A/RECT	56
IMRE1SSF1/24/2	19	IMRE2S16/230A/OM/N	11	IMRE2SFI1/230A/3	22	IMRE2SS16/12/OM	5
IMRE1SSF1/24/3	19	IMRE2S16/230A/RECT	56	IMRE2SFI1/24/1	21	IMRE2SS16/12/OM/N	11
IMRE1SSF16/110A/1	20	IMRE2S16/24/OM	5	IMRE2SFI1/24/2	21	IMRE2SS16/230A/OM	5
IMRE1SSF16/110A/2	20	IMRE2S16/24/OM/N	11	IMRE2SFI1/24/3	21	IMRE2SS16/230A/OM/N	11
IMRE1SSF16/110A/3	20	IMRE2S16/24A/RECT	15	IMRE2SFI16/110A/1	22	IMRE2SS16/230A/RECT	56
IMRE1SSF16/12/1	19	IMRE2S2/110A/OM	5	IMRE2SFI16/110A/2	22	IMRE2SS16/24/DM37	17
IMRE1SSF16/12/2	19	IMRE2S2/110A/OM/N	11	IMRE2SFI16/110A/3	22	IMRE2SS16/24/OM	5
IMRE1SSF16/12/3	19	IMRE2S2/110A/RECT	56	IMRE2SFI16/12/1	21	IMRE2SS16/24/OM/N	11
IMRE1SSF16/230A/1	20	IMRE2S2/12/OM	5	IMRE2SFI16/12/2	21	IMRE2SS16/24A/RECT	15
IMRE1SSF16/230A/2	20	IMRE2S2/12/OM/N	11	IMRE2SFI16/12/3	21	IMRE2SS2/110A/OM	5
IMRE1SSF16/230A/3	20	IMRE2S2/230A/OM	5	IMRE2SFI16/230A/1	22	IMRE2SS2/110A/OM/N	11
IMRE1SSF16/24/2	19	IMRE2S2/230A/OM/N	11	IMRE2SFI16/230A/2	22	IMRE2SS2/110A/RECT	56
IMRE1SSF16/24/3	19	IMRE2S2/230A/RECT	56	IMRE2SFI16/230A/3	22	IMRE2SS2/12/OM	5
IMRE1SSF2/110A/1	20	IMRE2S2/24/OM	5	IMRE2SFI16/24/1	21	IMRE2SS2/12/OM/N	11
IMRE1SSF2/110A/2	20	IMRE2S2/24/OM/N	11	IMRE2SFI16/24/2	21	IMRE2SS2/230A/OM	5
IMRE1SSF2/110A/3	20	IMRE2S2/24A/RECT	15	IMRE2SFI16/24/3	21	IMRE2SS2/230A/OM/N	11
IMRE1SSF2/12/1	19	IMRE2S4/110A/OM	5	IMRE2SFI2/110A/1	22	IMRE2SS2/230A/RECT	56
IMRE1SSF2/12/2	19	IMRE2S4/110A/OM/N	11	IMRE2SFI2/110A/2	22	IMRE2SS2/24/OM	5
IMRE1SSF2/12/3	19	IMRE2S4/110A/RECT	56	IMRE2SFI2/110A/3	22	IMRE2SS2/24/OM/N	11
IMRE1SSF2/230A/1	20	IMRE2S4/12/OM	5	IMRE2SFI2/12/1	21	IMRE2SS2/24A/RECT	15
IMRE1SSF2/230A/2	20	IMRE2S4/12/OM/N	11	IMRE2SFI2/12/2	21	IMRE2SS4/110A/OM	5
IMRE1SSF2/230A/3	20	IMRE2S4/230A/OM	5	IMRE2SFI2/12/3	21	IMRE2SS4/110A/OM/N	11
IMRE1SSF2/24/1	19	IMRE2S4/230A/OM/N	11	IMRE2SFI2/230A/1	22	IMRE2SS4/110A/RECT	56
IMRE1SSF2/24/2	19	IMRE2S4/230A/RECT	56	IMRE2SFI2/230A/2	22	IMRE2SS4/12/OM	5
IMRE1SSF2/24/3	19	IMRE2S4/24/OM	5	IMRE2SFI2/230A/3	22	IMRE2SS4/12/OM/N	11
IMRE1SSF4/110A/1	20	IMRE2S4/24/OM/N	11	IMRE2SFI2/24/1	21	IMRE2SS4/230A/OM	5
IMRE1SSF4/110A/2	20	IMRE2S4/24A/RECT	15	IMRE2SFI2/24/2	21	IMRE2SS4/230A/OM/N	11
IMRE1SSF4/110A/3	20	IMRE2S8/110A/OM	5	IMRE2SFI2/24/3	21	IMRE2SS4/230A/RECT	56
IMRE1SSF4/12/1	19	IMRE2S8/110A/OM/N	11	IMRE2SFI4/110A/1	22	IMRE2SS4/24/OM	5

Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No	Cat.No	Pg.No
IMRE2SS4/24/OM/N	11	IMRE2SSFI2/24/1	21	IMREF1SS16/24/OM	19	IMSER1/24A48D4	29
IMRE2SS4/24A/RECT	15	IMRE2SSFI2/24/2	21	IMREF1SS2/110A/OM	20	IMSER1/24D380A2	29
IMRE2SS8/110A/OM	5	IMRE2SSFI2/24/3	21	IMREF1SS2/12/OM	19	IMSER1/24D48D0.1	29
IMRE2SS8/110A/OM/N	11	IMRE2SSFI4/110A/1	22	IMREF1SS2/230A/OM	20	IMSER1/24D48D4	29
IMRE2SS8/110A/RECT	56	IMRE2SSFI4/110A/2	22	IMREF1SS2/24/OM	19	IMSR1SS1/110A	27
IMRE2SS8/12/OM	5	IMRE2SSFI4/110A/3	22	IMREF1SS4/110A/OM	20	IMSR1SS1/12	27
IMRE2SS8/12/OM/N	11	IMRE2SSFI4/12/1	21	IMREF1SS4/12/OM	19	IMSR1SS1/12A	27
IMRE2SS8/230A/OM	5	IMRE2SSFI4/12/2	21	IMREF1SS4/230A/OM	20	IMSR1SS1/230A	27
IMRE2SS8/230A/OM/N	11	IMRE2SSFI4/12/3	21	IMREF1SS4/24/OM	19	IMSR1SS1/24	27
IMRE2SS8/230A/RECT	56	IMRE2SSFI4/230A/1	22	IMREF1SS8/110A/OM	20	IMSR1SS1/24A	27
IMRE2SS8/24/OM	5	IMRE2SSFI4/230A/2	22	IMREF1SS8/12/OM	19	IMSR1SS1/48	27
IMRE2SS8/24/OM/N	11	IMRE2SSFI4/230A/3	22	IMREF1SS8/230A/OM	20	IMSR1SS1/48A	27
IMRE2SS8/24A/RECT	15	IMRE2SSFI4/24/1	21	IMREF1SS8/24/OM	19	IMSR1SS1/5	27
IMRE2SSF1/110A/OM	22	IMRE2SSFI4/24/2	21	IMREF2S1/110A/OM	22	IMSR1SS1/60	27
IMRE2SSF1/12/OM	21	IMRE2SSFI4/24/3	21	IMREF2S1/12/OM	21	IMSR1SS1/60A	27
IMRE2SSF1/230A/OM	22	IMRE2SSFI8/110A/1	22	IMREF2S1/230A/OM	22	IMTR8/24P/24N	23
IMRE2SSF1/24/OM	21	IMRE2SSFI8/110A/2	22	IMREF2S1/24/OM	21	IMTRF8/24N/24N	23
IMRE2SSF16/110A/OM	22	IMRE2SSFI8/110A/3	22	IMREF2S16/110A/OM	22	IMV/14/R/130	43
IMRE2SSF16/12/OM	21	IMRE2SSFI8/12/1	21	IMREF2S16/12/OM	21	IMV/14/R/275	43
IMRE2SSF16/230A/OM	22	IMRE2SSFI8/12/2	21	IMREF2S16/230A/OM	22	IMV/14/R/50	43
IMRE2SSF16/24/OM	21	IMRE2SSFI8/12/3	21	IMREF2S16/24/OM	21	IMV/3/S/130	43
IMRE2SSF2/110A/OM	22	IMRE2SSFI8/230A/1	22	IMREF2S2/110A/OM	22	IMV/3/S/275	43
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IMRE2SSF2/230A/OM	22	IMRE2SSFI8/230A/3	22	IMREF2S2/230A/OM	22	IMV/5/R/130	43
IMRE2SSF2/24/OM	21	IMRE2SSFI8/24/1	21	IMREF2S2/24/OM	21	IMV/5/R/275	43
IMRE2SSF4/110A/OM	22	IMRE2SSFI8/24/2	21	IMREF2S4/110A/OM	22	IMV/5/R/50	43
IMRE2SSF4/12/OM	21	IMRE2SSFI8/24/3	21	IMREF2S4/12/OM	21	IMV/8/S/130	43
IMRE2SSF4/230A/OM	22	IMRE4SS1/110A/OM	7	IMREF2S4/230A/OM	22	IMV/8/S/275	43
IMRE2SSF4/24/OM	21	IMRE4SS1/230A/OM	7	IMREF2S4/24/OM	21	IMV/8/S/50	43
IMRE2SSF8/110A/OM	22	IMRE4SS1/24/OM	7	IMREF2S8/110A/OM	22	IMV/9/R/130	43
IMRE2SSF8/12/OM	21	IMRE4SS2/110A/OM	7	IMREF2S8/12/OM	21	IMV/9/R/275	43
IMRE2SSF8/230A/OM	22	IMRE4SS2/230A/OM	7	IMREF2S8/230A/OM	22	IMV/9/R/50	43
IMRE2SSF8/24/OM	21	IMRE4SS2/24/OM	7	IMREF2S8/24/OM	21	MDSUBF/37/SC	37
IMRE2SSF11/110A/1	22	IMRE4SS4/110A/OM	7	IMREF2SS1/110A/OM	22	MFMT108BK	58
IMRE2SSF11/110A/2	22	IMRE4SS4/230A/OM	7	IMREF2SS1/12/OM	21	MFMT108G	58
IMRE2SSF11/110A/3	22	IMRE4SS4/24/OM	7	IMREF2SS1/230A/OM	22	MFMT108GN	58
IMRE2SSF11/12/1	21	IMRE4SS8/110A/OM	7	IMREF2SS1/24/OM	21	MFMT108O	58
IMRE2SSF11/12/2	21	IMRE4SS8/230A/OM	7	IMREF2SS16/110A/OM	22	MFMT73BK	58
IMRE2SSF11/12/3	21	IMRE4SS8/24/OM	7	IMREF2SS16/12/OM	21	MFMT73G	58
IMRE2SSF11/230A/1	22	IMREF1S1/110A/OM	20	IMREF2SS16/230A/OM	22	MFMT73GN	58
IMRE2SSF11/230A/2	22	IMREF1S1/12/OM	19	IMREF2SS16/24/OM	21	MFMT73O	58
IMRE2SSF11/230A/3	22	IMREF1S1/230A/OM	20	IMREF2SS2/110A/OM	22	MT108BK/1	58
IMRE2SSF11/24/1	21	IMREF1S1/24/OM	19	IMREF2SS2/12/OM	21	MT108BK/2	58
IMRE2SSF11/24/2	21	IMREF1S16/110A/OM	20	IMREF2SS2/230A/OM	22	MT108G/1	58
IMRE2SSF11/24/3	21	IMREF1S16/12/OM	19	IMREF2SS2/24/OM	21	MT108G/2	58
IMRE2SSF16/110A/1	22	IMREF1S16/230A/OM	20	IMREF2SS4/110A/OM	22	MT108GN/1	58
IMRE2SSF16/110A/2	22	IMREF1S16/24/OM	19	IMREF2SS4/12/OM	21	MT108GN/2	58
IMRE2SSF16/110A/3	22	IMREF1S2/110A/OM	20	IMREF2SS4/230A/OM	22	MT108O/1	58
IMRE2SSF16/12/1	21	IMREF1S2/12/OM	19	IMREF2SS4/24/OM	21	MT108O/2	58
IMRE2SSF16/12/2	21	IMREF1S2/230A/OM	20	IMREF2SS8/110A/OM	22	MT73BK/1	58
IMRE2SSF16/12/3	21	IMREF1S2/24/OM	19	IMREF2SS8/12/OM	21	MT73BK/2	58
IMRE2SSF16/230A/1	22	IMREF1S4/110A/OM	20	IMREF2SS8/230A/OM	22	MT73G/1	58
IMRE2SSF16/230A/2	22	IMREF1S4/12/OM	19	IMREF2SS8/24/OM	21	MT73G/2	58
IMRE2SSF16/230A/3	22	IMREF1S4/230A/OM	20	IMRJ45/1:1/8/HS	38	MT73GN/1	58
IMRE2SSF16/24/1	21	IMREF1S4/24/OM	19	IMRJ45/8/H	38	MT73GN/2	58
IMRE2SSF16/24/2	21	IMREF1S8/110A/OM	20	IMRJ45/8/HS	38	MT73O/1	58
IMRE2SSF16/24/3	21	IMREF1S8/12/OM	19	IMRJ45/8/HS-V1	38	MT73O/2	58
IMRE2SSF12/110A/1	22	IMREF1S8/230A/OM	20	IMRJ45/8/V	38		
IMRE2SSF12/110A/2	22	IMREF1S8/24/OM	19	IMSER1/24A380A2	29		
IMRE2SSF12/110A/3	22	IMREF1SS1/110A/OM	20	IMSER1/24A48D0.1	29		
IMRE2SSF12/12/1	21	IMREF1SS1/12/OM	19				
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IMRE2SSF12/230A/1	22	IMREF1SS16/110A/OM	20				
IMRE2SSF12/230A/2	22	IMREF1SS16/12/OM	19				
IMRE2SSF12/230A/3	22	IMREF1SS16/230A/OM	20				

**Note:** The product information is carefully compiled and is accurate for most of the application. New findings in materials and process technology necessitate modification of the products. We reserve the right to change / modify the product without intimation. However the changes that take place without notice in no way reduce function or performance of the product.



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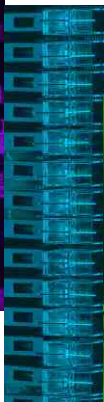
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