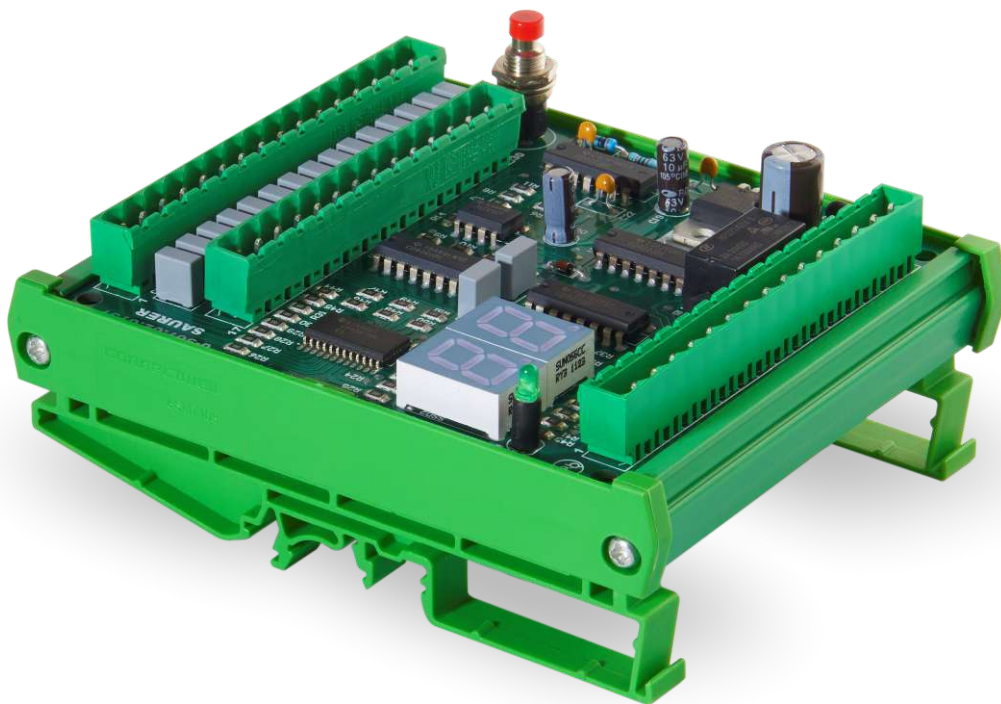


CUSTOM INTERFACE MODULES



BUILT JUST FOR **YOU**

Standard Relay Modules which use a single type of relay or standard input and output protection circuits often are unable to meet the needs of certain industrial applications. Connectwell's IMRE Series Custom Relay Interfaces allows customers to configure Relay Interfaces for the specific needs of their application. Practically every aspect of the Relay Board design can be custom built to create the most suitable solution for answering the switching and protection needs of the end application.

Superior Choice of

V0 GRADE

Flammability
Rating Housing



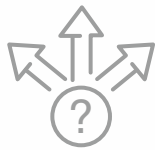
True Full
Contact Rating



**CONTINUOUS
OPERATION**

Choice of

**ELECTROMECHANICAL
& ELECTRONIC
RELAYS**



SUPERIOR RELAYS

with Increased
Operational life



Superior **AESTHETICS**

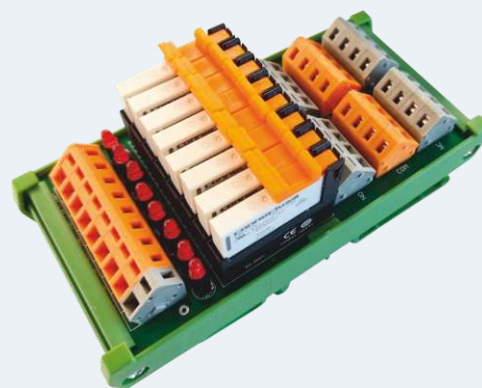
with consistent Profile
for 1 CO, 2CO
& 4CO Contacts



SLIM RELAY MODULES

8 Channel

- Supply voltage 24V.
- Easy to replace pluggable slim relays.
- LED Indication on Coil activation.
- Pluggable Terminals at input side.
- Low coil power consumption.
- Freewheeling diode for all relays.
- Reverse polarity protection.
- Output connections of relay will be directly terminated using screw less connector.
- 8 separate signals for relay activation & one common negative.
- DIN Rail Mounting



RoHS

ORDERING INFORMATION

Description	Cat. No.
8 Channel Module with Pluggable Relays	IMSR1SS8/24/N/SC

CONNECTION DATA

Type of Connection	Spring Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 28 -12 AWG
Stripping Length	6.5 mm

GENERAL DATA

Number of Channels	8
Width (mm)	60
Height (mm)	66
Length (mm)*	125
Bussing	Common Negative
Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20° C ... +55° C
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **
Housing Insulation Material	PVC / V0 Grade
Housing Colour	Green

OUTPUT DATA

Contact Type	1 Form C (SPDT)
Contact Material	AgSnO2
Contact Resistance	Max 100m W at 6 VDC, 1A
Rated Contact Current (Resistive Load)	2 A
Load Voltage Range	24 VDC
Maximum Switching Voltage	250 VAC
Maximum Operating Frequency	50-60 Hz
Turn-Off Time	4.2 mS
Turn-On Time (0 Cross Turn On)	5.2 mS

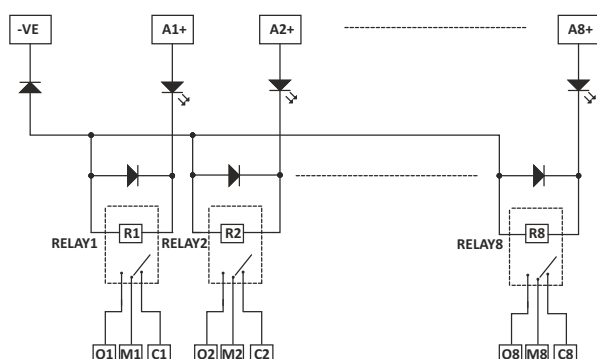
RELAY COIL DATA

Rated Coil Voltage	24 VDC
Coil Resistance	3430 Ω
Rated Coil Current	7 mA
Must Operate Voltage	18 VDC
Must Release Voltage	2.4 VDC
Max. Voltage	26.4 VDC

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

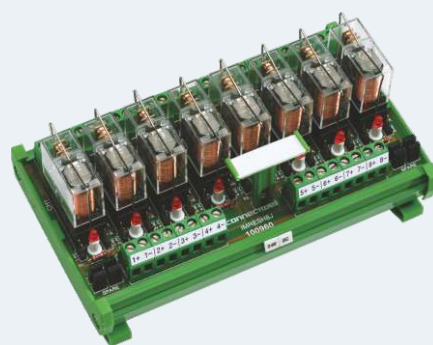
** PANEL Mounting relay modules are available on request.
Please use the suffix -P with the cat. no. for ordering.

CIRCUIT DIAGRAM



1 CO RELAY MODULES

- 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

Description	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1 Channel Module with Pluggable Relays	IMRE1SS1/12/OM	IMRE1SS1/24/OM	IMRE1SS1/110A/OM	IMRE1SS1/230A/OM
1 Channel Module with Soldered Relays	IMRE1S1/12/OM	IMRE1S1/24/OM	IMRE1S1/110A/OM	IMRE1S1/230A/OM
16 Channel Module with Pluggable Relays	IMRE1SS16/12/OM	IMRE1SS16/24/OM	IMRE1SS16/110A/OM	IMRE1SS16/230A/OM
16 Channel Module with Soldered Relays	IMRE1S16/12/OM	IMRE1S16/24/OM	IMRE1S16/110A/OM	IMRE1S16/230A/OM

GENERAL DATA

Number of Channels	1	16
Width (mm)	88	88
Height (mm)	74	74
Length (mm)*	23	289
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	

* 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.

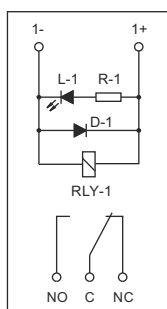
CONNECTION DATA

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 CONTACT DATA

Contact Type	1 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	10A @230 VAC / 30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 10 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.

CIRCUIT DIAGRAM

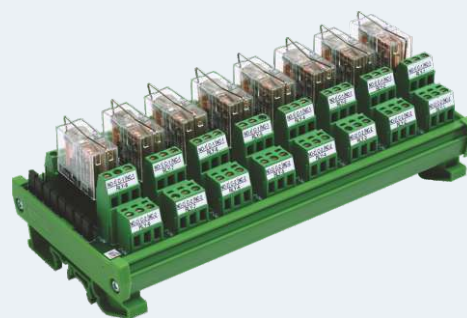


RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance Ω	270	1100	4600	26850
Rated Coil Current (mA)	44.5	21.8	11.0	4.7
Must Operate Voltage	8.4	16.8	88	184
Must Release Voltage	1.2	2.4	33	69
Max. Voltage	20.4	39.6	184	253

2 CO RELAY 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
- Possibility of Bussing (Jumping) relays in common negative or common positive configurations
- LED Indication to denote relay actuation
- Relay Coil Protection by means of a Freewheeling Diode
- DIN Rail mounting



RoHS

ORDERING INFORMATION

Description	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1 Channel Module with Pluggable Relays	IMRE2SS1/12/OM	IMRE2SS1/24/OM	IMRE2SS1/110A/OM	IMRE2SS1/230A/OM
1 Channel Module with Soldered Relays	IMRE2S1/12/OM	IMRE2S1/24/OM	IMRE2S1/110A/OM	IMRE2S1/230A/OM
16 Channel Module with Pluggable Relays	IMRE2SS16/12/OM	IMRE2SS16/24/OM	IMRE2SS16/110A/OM	IMRE2SS16/230A/OM
16 Channel Module with Soldered Relays	IMRE2S16/12/OM	IMRE2S16/24/OM	IMRE2S16/110A/OM	IMRE2S16/230A/OM

GENERAL DATA

Number of Channels	1	16
Width (mm)	88	88
Height (mm)	74	74
Length (mm)*	29	377
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	

* 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.

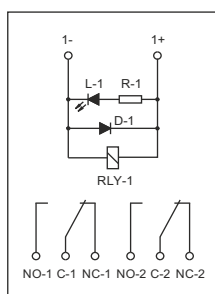
CONNECTION DATA

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 CONTACT DATA

Contact Type	2 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	5A @230 VAC / 30 VDC
Max. Switching Voltage	380 VAC, 125 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 10 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.

CIRCUIT DIAGRAM

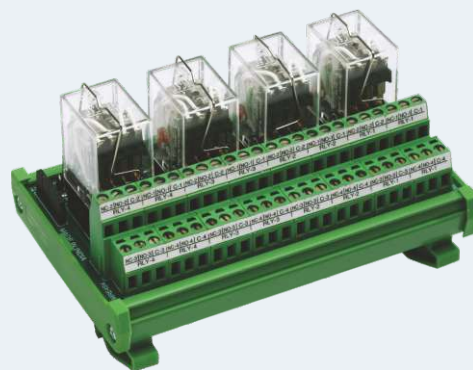


RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance Ω	270	1100	4600	26850
Rated Coil Current (mA)	44.5	21.8	11.0	4.7
Must Operate Voltage	8.4	16.8	88	184
Must Release Voltage	1.2	2.4	33	69
Max. Voltage	20.4	39.6	184	253

4 CO RELAY 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
- 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

Description	Cat. No.	Cat. No.	Cat. No.
1 Channel Module with Pluggable Relays	IMRE4SS1/24/OM	IMRE4SS1/110/OM	IMRE4SS1/230A/OM
2 Channel Module with Pluggable Relays	IMRE4SS2/24/OM	IMRE4SS2/110/OM	IMRE4SS2/230A/OM
4 Channel Module with Pluggable Relays	IMRE4SS4/24/OM	IMRE4SS4/110/OM	IMRE4SS4/230A/OM
8 Channel Module with Pluggable Relays	IMRE4SS8/24/OM	IMRE4SS8/110/OM	IMRE4SS8/230A/OM

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
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			

* 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.

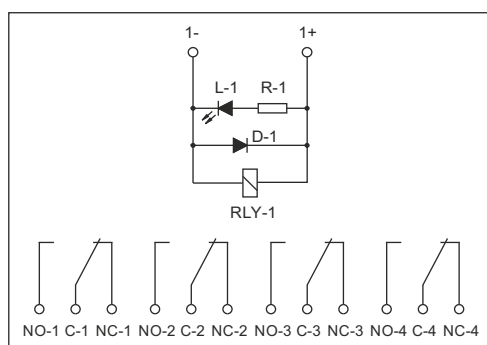
CONNECTION DATA

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 CONTACT DATA

Contact Type	4 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	3A @230 VAC / 30 VDC
Max. Switching Voltage	250 VAC, 125 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 10 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations

CIRCUIT DIAGRAM

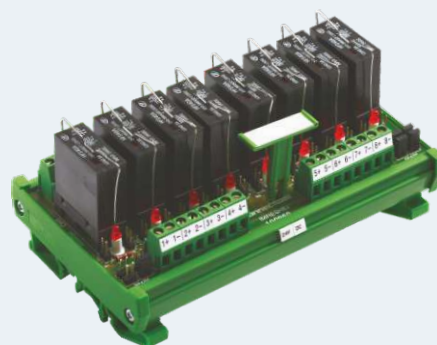


RELAY COIL DATA

Rated Coil Voltage	24 VDC	110 VAC	230 VAC
Coil Resistance Ω	1100	4600	26850
Rated Coil Current (mA)	21.8	11.0	4.7
Must Operate Voltage	16.8	88	184
Must Release Voltage	2.4	33	69
Max. Voltage	26.4	184	253

SSR MODULES DC INPUT - DC OUTPUT | DC INPUT - AC OUTPUT

- 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)
- DIN Rail mounting
- Easy to replace pluggable SSR
- Replaceable fuses with simple to operate Horizontal fuse holders



RoHS

ORDERING INFORMATION - PLUGGABLE RELAYS

Rated Coil Voltage	5 VDC	12 VDC	24 VDC
DC Output 2A			
1 Channel	IMERS1/5D125D2	IMERS1/12D125D2	IMERS1/24D125D2
2 Channel	IMERS2/5D125D2	IMERS2/12D125D2	IMERS2/24D125D2
4 Channel	IMERS4/5D125D2	IMERS4/12D125D2	IMERS4/24D125D2
8 Channel	IMERS8/5D125D2	IMERS8/12D125D2	IMERS8/24D125D2
16 Channel	IMERS16/5D125D2	IMERS16/12D125D2	IMERS16/24D125D2
AC Output 3A			
1 Channel	IMERS1/5D400A3	IMERS1/12D400A3	IMERS1/24D400A3
2 Channel	IMERS2/5D400A3	IMERS2/12D400A3	IMERS2/24D400A3
4 Channel	IMERS4/5D400A3	IMERS4/12D400A3	IMERS4/24D400A3
8 Channel	IMERS8/5D400A3	IMERS8/12D400A3	IMERS8/24D400A3
16 Channel	IMERS16/5D400A3	IMERS16/12D400A3	IMERS16/24D400A3

ORDERING INFORMATION - SOLDERED RELAYS

Rated Coil Voltage	5 VDC	12 VDC	24 VDC
DC Output 2A			
1 Channel	IMER1/5D125D2	IMER1/12D125D2	IMER1/24D125D2
2 Channel	IMER2/5D125D2	IMER2/12D125D2	IMER2/24D125D2
4 Channel	IMER4/5D125D2	IMER4/12D125D2	IMER4/24D125D2
8 Channel	IMER8/5D125D2	IMER8/12D125D2	IMER8/24D125D2
16 Channel	IMER16/5D125D2	IMER16/12D125D2	IMER16/24D125D2
AC Output 3A			
1 Channel	IMER1/5D400A3	IMER1/12D400A3	IMER1/24D400A3
2 Channel	IMER2/5D400A3	IMER2/12D400A3	IMER2/24D400A3
4 Channel	IMER4/5D400A3	IMER4/12D400A3	IMER4/24D400A3
8 Channel	IMER8/5D400A3	IMER8/12D400A3	IMER8/24D400A3
16 Channel	IMER16/5D400A3	IMER16/12D400A3	IMER16/24D400A3

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	45	79	148	289
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				

* 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 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

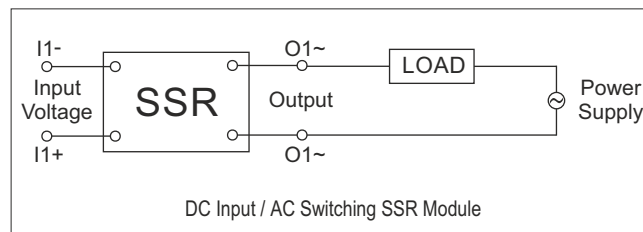
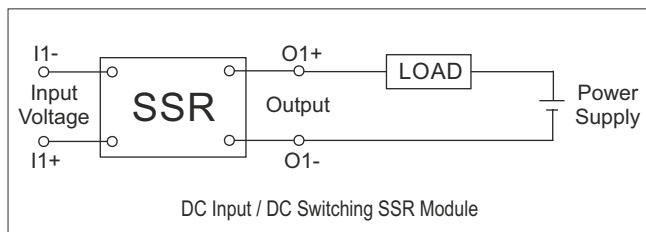
SSR OUTPUT DATA

Contact Type	1 NO (DC Output)	1 NO (AC Output)
Load Voltage Range	3-125 VDC	75-400 VAC
Load Current Range	0.1 - 2A	0.1 - 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

SSR INPUT DATA

Control Voltage Input 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. Input Current	20 mA	20 mA	20 mA
Max. Reverse Voltage Protection	-6VDC	-14.4 VDC	-28.8 VDC

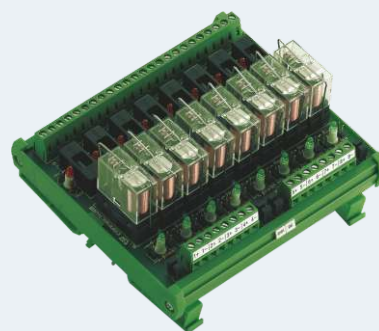
CIRCUIT DIAGRAM



1 CO RELAY MODULES WITH FUSE

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

- 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
- DIN Rail Mounting



RoHS

GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	120	120	120	120	120
Height (mm)	74	74	74	74	74
Length (mm)*	23	39	69	130	252
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				

* 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.

RELAY CONTACT DATA

Contact Type	1 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	10A @250 VAC; 10A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Relay Approvals	   
Other Coil Voltages etc.	Voltages like 6 VDC, 48 VDC, 24 VAC are available on request.

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 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, 0.6, 1, 2, 3, 4, 5, 6, 6.3

RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance Ω	270	1100	4600	26850
Rated Coil Current (mA)	44.5	21.8	11.0	4.7
Must Operate Voltage	8.4	16.8	88	184
Must Release Voltage	1.2	2.4	33	69
Max. Voltage	20.4	39.6	184	253

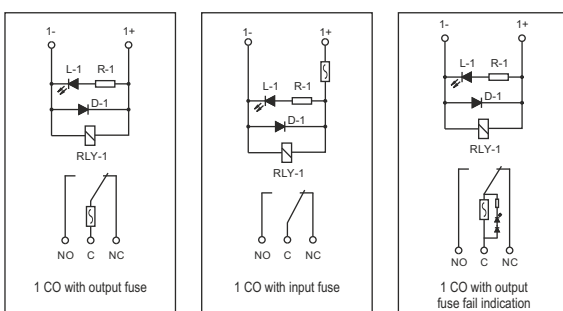
ORDERING INFORMATION - PLUGGABLE RELAYS

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
With Fuse at Output				
1 Channel	IMRE1SSF1/12/OM	IMRE1SSF1/24/OM	IMRE1SSF1/110A/OM	IMRE1SSF1/230A/OM
2 Channel	IMRE1SSF2/12/OM	IMRE1SSF2/24/OM	IMRE1SSF2/110A/OM	IMRE1SSF2/230A/OM
4 Channel	IMRE1SSF4/12/OM	IMRE1SSF4/24/OM	IMRE1SSF4/110A/OM	IMRE1SSF4/230A/OM
8 Channel	IMRE1SSF8/12/OM	IMRE1SSF8/24/OM	IMRE1SSF8/110A/OM	IMRE1SSF8/230A/OM
16 Channel	IMRE1SSF16/12/OM	IMRE1SSF16/24/OM	IMRE1SSF16/110A/OM	IMRE1SSF16/230A/OM
With Fuse at Input				
1 Channel	IMREF1SS1/12/OM	IMREF1SS1/24/OM	IMREF1SS1/110A/OM	IMREF1SS1/230A/OM
2 Channel	IMREF1SS2/12/OM	IMREF1SS2/24/OM	IMREF1SS2/110A/OM	IMREF1SS2/230A/OM
4 Channel	IMREF1SS4/12/OM	IMREF1SS4/24/OM	IMREF1SS4/110A/OM	IMREF1SS4/230A/OM
8 Channel	IMREF1SS8/12/OM	IMREF1SS8/24/OM	IMREF1SS8/110A/OM	IMREF1SS8/230A/OM
16 Channel	IMREF1SS16/12/OM	IMREF1SS16/24/OM	IMREF1SS16/110A/OM	IMREF1SS16/230A/OM
With Fuse Fail Indication at Output *				
1 Channel	IMRE1SSFI1/12/OM/X	IMRE1SSFI1/24/OM/X	IMRE1SSFI1/110A/OM/X	IMRE1SSFI1/230A/OM/X
2 Channel	IMRE1SSFI2/12/OM/X	IMRE1SSFI2/24/OM/X	IMRE1SSFI2/110A/OM/X	IMRE1SSFI2/230A/OM/X
4 Channel	IMRE1SSFI4/12/OM/X	IMRE1SSFI4/24/OM/X	IMRE1SSFI4/110A/OM/X	IMRE1SSFI4/230A/OM/X
8 Channel	IMRE1SSFI8/12/OM/X	IMRE1SSFI8/24/OM/X	IMRE1SSFI8/110A/OM/X	IMRE1SSFI8/230A/OM/X
16 Channel	IMRE1SSFI16/12/OM/X	IMRE1SSFI16/24/OM/X	IMRE1SSFI16/110A/OM/X	IMRE1SSFI16/230A/OM/X

ORDERING INFORMATION - SOLDERED RELAYS

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
With Fuse at Output				
1 Channel	IMRE1SF1/12/OM	IMRE1SF1/24/OM	IMRE1SF1/110A/OM	IMRE1SF1/230A/OM
2 Channel	IMRE1SF2/12/OM	IMRE1SF2/24/OM	IMRE1SF2/110A/OM	IMRE1SF2/230A/OM
4 Channel	IMRE1SF4/12/OM	IMRE1SF4/24/OM	IMRE1SF4/110A/OM	IMRE1SF4/230A/OM
8 Channel	IMRE1SF8/12/OM	IMRE1SF8/24/OM	IMRE1SF8/110A/OM	IMRE1SF8/230A/OM
16 Channel	IMRE1SF16/12/OM	IMRE1SF16/24/OM	IMRE1SF16/110A/OM	IMRE1SF16/230A/OM
With Fuse at Input				
1 Channel	IMREF1S1/12/OM	IMREF1S1/24/OM	IMREF1S1/110A/OM	IMREF1S1/230A/OM
2 Channel	IMREF1S2/12/OM	IMREF1S2/24/OM	IMREF1S2/110A/OM	IMREF1S2/230A/OM
4 Channel	IMREF1S4/12/OM	IMREF1S4/24/OM	IMREF1S4/110A/OM	IMREF1S4/230A/OM
8 Channel	IMREF1S8/12/OM	IMREF1S8/24/OM	IMREF1S8/110A/OM	IMREF1S8/230A/OM
16 Channel	IMREF1S16/12/OM	IMREF1S16/24/OM	IMREF1S16/110A/OM	IMREF1S16/230A/OM
With Fuse Fail Indication at Output				
1 Channel	IMRE1SFI1/12/OM/X	IMRE1SFI1/24/OM/X	IMRE1SFI1/110A/OM/X	IMRE1SFI1/230A/OM/X
2 Channel	IMRE1SFI2/12/OM/X	IMRE1SFI2/24/OM/X	IMRE1SFI2/110A/OM/X	IMRE1SFI2/230A/OM/X
4 Channel	IMRE1SFI4/12/OM/X	IMRE1SFI4/24/OM/X	IMRE1SFI4/110A/OM/X	IMRE1SFI4/230A/OM/X
8 Channel	IMRE1SFI8/12/OM/X	IMRE1SFI8/24/OM/X	IMRE1SFI8/110A/OM/X	IMRE1SFI8/230A/OM/X
16 Channel	IMRE1SFI16/12/OM/X	IMRE1SFI16/24/OM/X	IMRE1SFI16/110A/OM/X	IMRE1SFI16/230A/OM/X

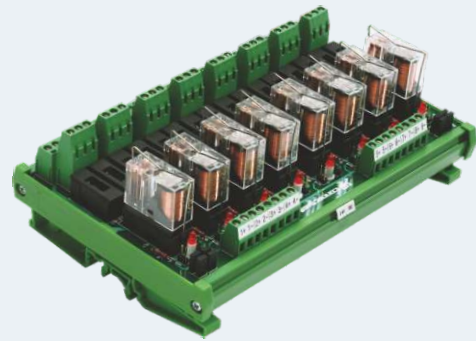
CIRCUIT DIAGRAM



2 CO RELAY MODULES WITH FUSE

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

- 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 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
- Relay Coil Protection by means of a Freewheeling Diode
- Green LED Indication to denote relay actuation
- Red LED Indication to denote fuse fail indication
- DIN Rail mounting



RoHS

GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	120	120	120	120	120
Height (mm)	74	74	74	74	74
Length (mm)* Fuse at Output	32	52	102	235	373
Length (mm)* Fuse at Input	26	39	69	130	254
Positive Bussing Possibility	By using spare jumpers				
Negative Bussing Possibility	By using spare jumpers				
Power ON Indication	3 mm Red LED				
Fuse Fail Indication for Input Fuse	Green LED				
Fuse Fail Indication for Output Fuse	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				

* 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.

RELAY CONTACT DATA

Contact Type	2 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	5A @250 VAC; 5A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁵ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Relay Approvals	   
Other Coil Voltages etc.	Voltages like 6 VDC, 48 VDC, 24 VAC are available on request.

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 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, 0.6, 1, 2, 3, 4, 5, 6, 6.3

RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance Ω	270	1100	4600	26850
Rated Coil Current (mA)	44.5	21.8	11.0	4.7
Must Operate Voltage	8.4	16.8	88	184
Must Release Voltage	1.2	2.4	33	69
Max. Voltage	20.4	39.6	121	253

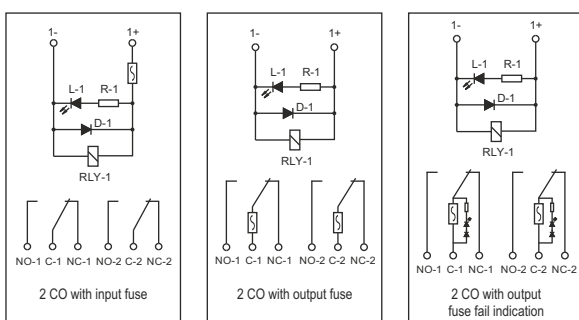
ORDERING INFORMATION - PLUGGABLE RELAYS

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
With Fuse at Output				
1 Channel	IMRE2SSF1/12/OM	IMRE2SSF1/24/OM	IMRE2SSF1/110A/OM	IMRE2SSF1/230A/OM
2 Channel	IMRE2SSF2/12/OM	IMRE2SSF2/24/OM	IMRE2SSF2/110A/OM	IMRE2SSF2/230A/OM
4 Channel	IMRE2SSF4/12/OM	IMRE2SSF4/24/OM	IMRE2SSF4/110A/OM	IMRE2SSF4/230A/OM
8 Channel	IMRE2SSF8/12/OM	IMRE2SSF8/24/OM	IMRE2SSF8/110A/OM	IMRE2SSF8/230A/OM
16 Channel	IMRE2SSF16/12/OM	IMRE2SSF16/24/OM	IMRE2SSF16/110A/OM	IMRE2SSF16/230A/OM
With Fuse at Input				
1 Channel	IMREF2SS1/12/OM	IMREF2SS1/24/OM	IMREF2SS1/110A/OM	IMREF2SS1/230A/OM
2 Channel	IMREF2SS2/12/OM	IMREF2SS2/24/OM	IMREF2SS2/110A/OM	IMREF2SS2/230A/OM
4 Channel	IMREF2SS4/12/OM	IMREF2SS4/24/OM	IMREF2SS4/110A/OM	IMREF2SS4/230A/OM
8 Channel	IMREF2SS8/12/OM	IMREF2SS8/24/OM	IMREF2SS8/110A/OM	IMREF2SS8/230A/OM
16 Channel	IMREF2SS16/12/OM	IMREF2SS16/24/OM	IMREF2SS16/110A/OM	IMREF2SS16/230A/OM
With Fuse Fail Indication at Output				
1 Channel	IMRE2SSFI1/12/OM	IMRE2SSFI1/24/OM	IMRE2SSFI1/110A/OM	IMRE2SSFI1/230A/OM
2 Channel	IMRE2SSFI2/12/OM	IMRE2SSFI2/24/OM	IMRE2SSFI2/110A/OM	IMRE2SSFI2/230A/OM
4 Channel	IMRE2SSFI4/12/OM	IMRE2SSFI4/24/OM	IMRE2SSFI4/110A/OM	IMRE2SSFI4/230A/OM
8 Channel	IMRE2SSFI8/12/OM	IMRE2SSFI8/24/OM	IMRE2SSFI8/110A/OM	IMRE2SSFI8/230A/OM
16 Channel	IMRE2SSFI16/12/OM	IMRE2SSFI16/24/OM	IMRE2SSFI16/110A/OM	IMRE2SSFI16/230A/OM

ORDERING INFORMATION - SOLDERED RELAYS

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
With Fuse at Output				
1 Channel	IMRE2SF1/12/OM	IMRE2SF1/24/OM	IMRE2SF1/110A/OM	IMRE2SF1/230A/OM
2 Channel	IMRE2SF2/12/OM	IMRE2SF2/24/OM	IMRE2SF2/110A/OM	IMRE2SF2/230A/OM
4 Channel	IMRE2SF4/12/OM	IMRE2SF4/24/OM	IMRE2SF4/110A/OM	IMRE2SF4/230A/OM
8 Channel	IMRE2SF8/12/OM	IMRE2SF8/24/OM	IMRE2SF8/110A/OM	IMRE2SF8/230A/OM
16 Channel	IMRE2SF16/12/OM	IMRE2SF16/24/OM	IMRE2SF16/110A/OM	IMRE2SF16/230A/OM
With Fuse at Input				
1 Channel	IMREF2S1/12/OM	IMREF2S1/24/OM	IMREF2S1/110A/OM	IMREF2S1/230A/OM
2 Channel	IMREF2S2/12/OM	IMREF2S2/24/OM	IMREF2S2/110A/OM	IMREF2S2/230A/OM
4 Channel	IMREF2S4/12/OM	IMREF2S4/24/OM	IMREF2S4/110A/OM	IMREF2S4/230A/OM
8 Channel	IMREF2S8/12/OM	IMREF2S8/24/OM	IMREF2S8/110A/OM	IMREF2S8/230A/OM
16 Channel	IMREF2S16/12/OM	IMREF2S16/24/OM	IMREF2S16/110A/OM	IMREF2S16/230A/OM
With Fuse Fail Indication at Output *				
1 Channel	IMRE2SFI1/12/OM	IMRE2SFI1/24/OM	IMRE2SFI1/110A/OM	IMRE2SFI1/230A/OM
2 Channel	IMRE2SFI2/12/OM	IMRE2SFI2/24/OM	IMRE2SFI2/110A/OM	IMRE2SFI2/230A/OM
4 Channel	IMRE2SFI4/12/OM	IMRE2SFI4/24/OM	IMRE2SFI4/110A/OM	IMRE2SFI4/230A/OM
8 Channel	IMRE2SFI8/12/OM	IMRE2SFI8/24/OM	IMRE2SFI8/110A/OM	IMRE2SFI8/230A/OM
16 Channel	IMRE2SFI16/12/OM	IMRE2SFI16/24/OM	IMRE2SFI16/110A/OM	IMRE2SFI16/230A/OM

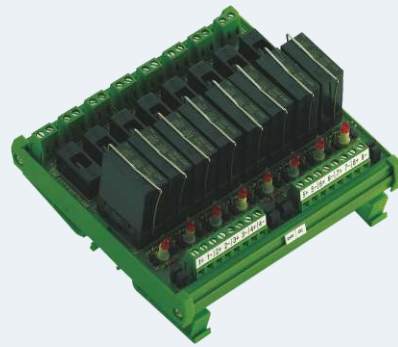
CIRCUIT DIAGRAM



SSR MODULES WITH FUSE

DC INPUT - DC OUTPUT | DC INPUT - AC OUTPUT

- 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)
- DIN Rail 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.



RoHS

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	45	79	148	239
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				

* 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.

SSR OUTPUT DATA

Contact Type	1 NO (DC Output)	1 NO (AC Output)
Load Voltage Range	3-125 VDC	75-400 VAC
Load Current Range	0.1 - 2A	0.1 - 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

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 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, 0.6, 1, 2, 3, 4, 5, 6, 6.3

SSR INPUT DATA

Control Voltage Input 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. Input Current	20 mA	20 mA	20 mA
Max. Reverse Voltage Protection	-6VDC	-14.4 VDC	-28.8 VDC

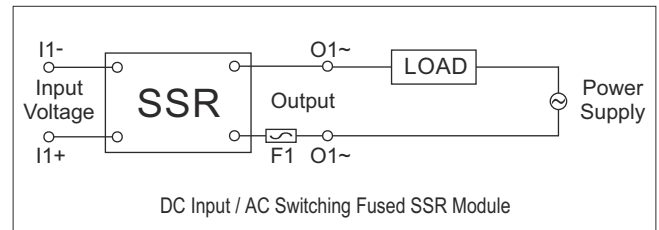
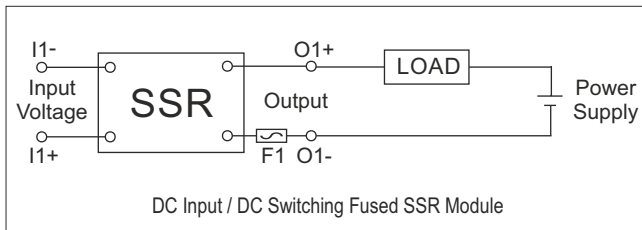
ORDERING INFORMATION - PLUGGABLE RELAYS

Rated Coil Voltage	5 VDC	12 VDC	24 VDC
DC Output 2A WITH FUSE			
1 Channel	IMERSF1/5D125D2	IMERSF1/12D125D2	IMERSF1/24D125D2
2 Channel	IMERSF2/5D125D2	IMERSF2/12D125D2	IMERSF2/24D125D2
4 Channel	IMERSF4/5D125D2	IMERSF4/12D125D2	IMERSF4/24D125D2
8 Channel	IMERSF8/5D125D2	IMERSF8/12D125D2	IMERSF8/24D125D2
16 Channel	IMERSF16/5D125D2	IMERSF16/12D125D2	IMERSF16/24D125D2
AC Output 3A WITH FUSE			
1 Channel	IMERSF1/5D400A3	IMERSF1/12D400A3	IMERSF1/24D400A3
2 Channel	IMERSF2/5D400A3	IMERSF2/12D400A3	IMERSF2/24D400A3
4 Channel	IMERSF4/5D400A3	IMERSF4/12D400A3	IMERSF4/24D400A3
8 Channel	IMERSF8/5D400A3	IMERSF8/12D400A3	IMERSF8/24D400A3
16 Channel	IMERSF16/5D400A3	IMERSF16/12D400A3	IMERSF16/24D400A3

ORDERING INFORMATION - SOLDERED RELAYS

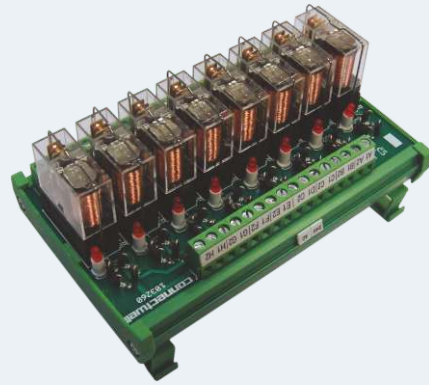
Rated Coil Voltage	5 VDC	12 VDC	24 VDC
DC Output 2A WITH FUSE			
1 Channel	IMERF1/5D125D2	IMERF1/12D125D2	IMERF1/24D125D2
2 Channel	IMERF2/5D125D2	IMERF2/12D125D2	IMERF2/24D125D2
4 Channel	IMERF4/5D125D2	IMERF4/12D125D2	IMERF4/24D125D2
8 Channel	IMERF8/5D125D2	IMERF8/12D125D2	IMERF8/24D125D2
16 Channel	IMERF16/5D125D2	IMERF16/12D125D2	IMERF16/24D125D2
AC Output 3A WITH FUSE			
1 Channel	IMERF1/5D400A3	IMERF1/12D400A3	IMERF1/24D400A3
2 Channel	IMERF2/5D400A3	IMERF2/12D400A3	IMERF2/24D400A3
4 Channel	IMERF4/5D400A3	IMERF4/12D400A3	IMERF4/24D400A3
8 Channel	IMERF8/5D400A3	IMERF8/12D400A3	IMERF8/24D400A3
16 Channel	IMERF16/5D400A3	IMERF16/12D400A3	IMERF16/24D400A3

CIRCUIT DIAGRAM



1 CO RELAY RECTIFIER BASED MODULES (24 VUC)

- Works with universal input 24 VAC & 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

1 Channel Module with Pluggable Relays	IMRE1SS1/24A/OMRE
2 Channel Module with Pluggable Relays	IMRE1SS2/24A/OMRE
4 Channel Module with Pluggable Relays	IMRE1SS4/24A/OMRE
8 Channel Module with Pluggable Relays	IMRE1SS8/24A/OMRE
16 Channel Module with Pluggable Relays	IMRE1SS16/24A/OMRE

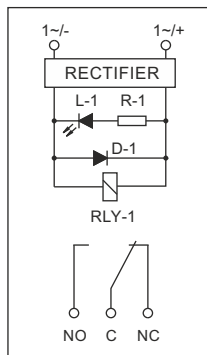
GENERAL DATA

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
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				

* 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



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 CONTACT DATA

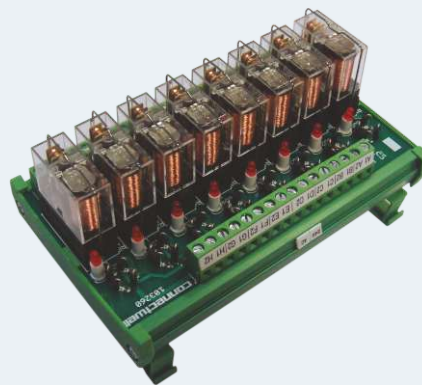
Contact Type	1 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	10A @230 VAC / 30 VDC
Max. Switching Voltage	400 VAC, 300 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 10 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Relay Approvals	   
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.

RELAY COIL DATA

Rated Coil Voltage	24 VUC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8
Must Release Voltage	2.4
Max. Voltage	39.6

2 CO RELAY RECTIFIER BASED MODULES (24 VUC)

- Works with universal input 24 VAC & 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

1 Channel Module with Pluggable Relays	IMRE2SS1/24A/OMRE
2 Channel Module with Pluggable Relays	IMRE2SS2/24A/OMRE
4 Channel Module with Pluggable Relays	IMRE2SS4/24A/OMRE
8 Channel Module with Pluggable Relays	IMRE2SS8/24A/OMRE
16 Channel Module with Pluggable Relays	IMRE2SS16/24A/OMRE

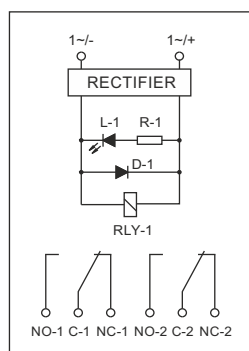
GENERAL DATA

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
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				

* 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



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 CONTACT DATA

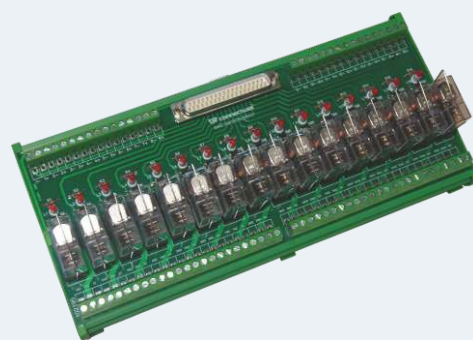
Contact Type	2 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	5A @230 VAC / 30 VDC
Max. Switching Voltage	400 VAC, 300 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 10 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Relay Approvals	   
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 24 VAC etc. are available on request.

RELAY COIL DATA

Rated Coil Voltage	24 VUC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8
Must Release Voltage	2.4
Max. Voltage	39.6

1 CO RELAY MODULES WITH DSUB INPUT

- 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

16 Channel Module with Pluggable Relays **IMRE1SS16/24/DM37**

GENERAL DATA

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 ... +60°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.

RELAY CONTACT DATA

Contact Type	1 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	10A @250 VAC; 10A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁵ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations
Relay Approvals	
Other Coil Voltages etc.	Voltages like 6 VDC, 48 VDC, 24 VAC are available on request.

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

DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	10 A 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

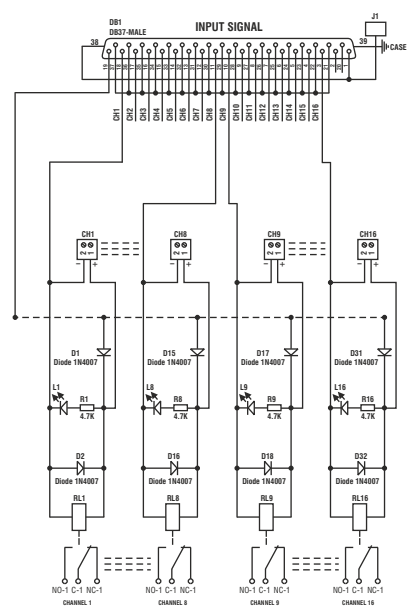
RELAY COIL DATA

Rated Coil Voltage	24 VDC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8
Must Release Voltage	2.4
Max. Voltage	39.6

D-SUB PIN ASSIGNMENT

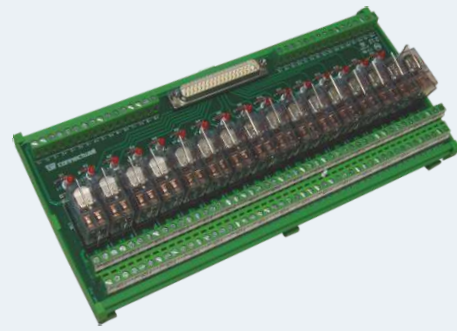
Width	72	
Channel	DB1	1 CO FIELD TERMINAL
CH1	18	1NO 1NC 1C
CH2	17	2NO 2NC 2C
CH3	16	3NO 3NC 3C
CH4	15	4NO 4NC 4C
CH5	14	5NO 5NC 5C
CH6	13	6NO 6NC 6C
CH7	12	7NO 7NC 7C
CH8	11	8NO 8NC 8C
CH9	10	9NO 9NC 9C
CH10	9	10NO 10NC 10C
CH11	8	11NO 11NC 11C
CH12	7	12NO 12NC 12C
CH13	6	13NO 13NC 13C
CH14	5	14NO 14NC 14C
CH15	4	15NO 15NC 15C
CH16	3	16NO 16NC 16C

CIRCUIT DIAGRAM



2 CO RELAY MODULES WITH DSUB INPUT

- Option to give switching signal through male DSUB 37 connector or through screw terminals
- Switching Current upto 5 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
- DIN Rail mounting



RoHS

ORDERING INFORMATION

16 Channel Module with Pluggable Relays **IMRE2SS16/24/DM37**

GENERAL DATA

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 ... +60°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.

RELAY CONTACT DATA

Contact Type	2 CO
Type of Connection	Screw Connection
Contact Material	Ag Alloy
Rated Current	5A @250 VAC; 5A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC
Timing Data	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ⁶ operations
Relay Approvals	
Other Coil Voltages etc.	Voltages like 6 VDC, 48 VDC, 24 VAC are available on request.

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

DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	5 A 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

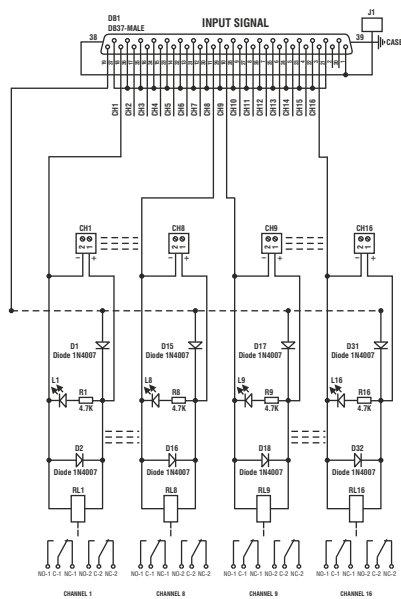
RELAY COIL DATA

Rated Coil Voltage	24 VDC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8
Must Release Voltage	2.4
Max. Voltage	39.6

D-SUB PIN ASSIGNMENT

Channel	DB1	2 CO FIELD TERMINAL	
CH1	18	1NO-1 1NC-1 1C-1	1NO-2 1NC-2 1C-2
CH2	17	2NO-1 2NC-1 2C-1	2NO-2 2NC-2 2C-2
CH3	16	3NO-1 3NC-1 3C-1	3NO-2 3NC-2 3C-2
CH4	15	4NO-1 4NC-1 4C-1	4NO-2 4NC-2 4C-2
CH5	14	5NO-1 5NC-1 5C-1	5NO-2 5NC-2 5C-2
CH6	13	6NO-1 6NC-1 6C-1	6NO-2 6NC-2 6C-2
CH7	12	7NO-1 7NC-1 7C-1	7NO-2 7NC-2 7C-2
CH8	11	8NO-1 8NC-1 8C-1	8NO-2 8NC-2 8C-2
CH9	10	9NO-1 9NC-1 9C-1	9NO-2 9NC-2 9C-2
CH10	9	10NO-1 10NC-1 10C-1	10NO-2 10NC-2 10C-2
CH11	8	11NO-1 11NC-1 11C-1	11NO-2 11NC-2 11C-2
CH12	7	12NO-1 12NC-1 12C-1	12NO-2 12NC-2 12C-2
CH13	6	13NO-1 13NC-1 13C-1	13NO-2 13NC-2 13C-2
CH14	5	14NO-1 14NC-1 14C-1	14NO-2 14NC-2 14C-2
CH15	4	15NO-1 15NC-1 15C-1	15NO-2 15NC-2 15C-2
CH16	3	16NO-1 16NC-1 16C-1	16NO-2 16NC-2 16C-2

CIRCUIT DIAGRAM

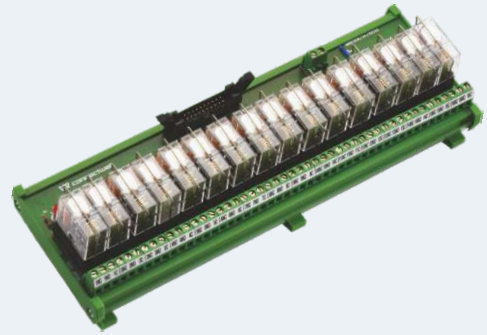


16 I/O INTERFACE MODULES FOR SCHNEIDER PLC

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.



RoHS

ORDERING INFORMATION

Module Type	16 CH 1 CO
With Pluggable Relays	IMRE1SS16/24/IDC20
With Soldered Relays	IMRE1S16/24/IDC20

GENERAL DATA

Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20°C ... +60°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.

IDC / FRC CONNECTOR DATA

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

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

DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	5A Max
Operation Voltage	250 VAC
Dielectric Withstanding Voltage	1000 VAC for one minute
Number of Contacts	37 (This varies based on no. of channels)

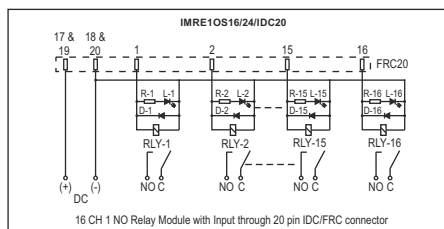
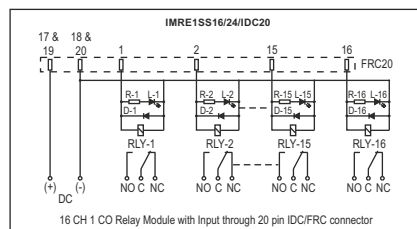
DSUB CONNECTOR MATERIALS

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

RELAY DATA

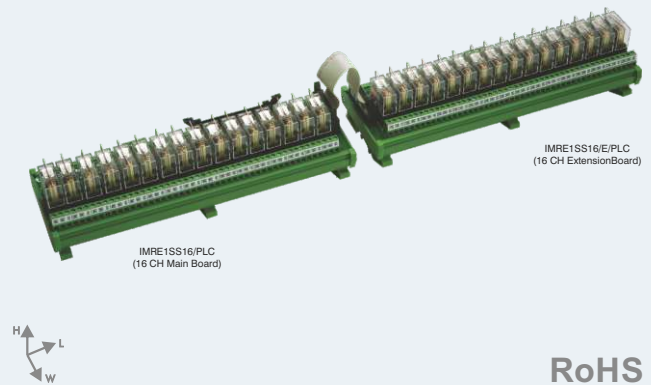
Contact Type	1CO (SPDT)
Standard Coil Voltage	24VDC (Relay coil voltage like 6 VDC, 12 VDC, 48 DC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgSnO ₂
Rated Current	10A @230 VAC / 30 VDC

CIRCUIT DIAGRAM



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

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.



RoHS

ORDERING INFORMATION

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

GENERAL DATA

Power ON Indication	3 mm Red LED
Relay Protection	Using 1N4007 Freewheeling Diode.
Ambient Temperature (Operation)	-20°C ... +60°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.

IDC / FRC CONNECTOR DATA

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

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

DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	5 A Max
Operation Voltage	250 VAC
Dielectric Withstanding Voltage	1000 VAC for one minute
Number of Contacts	37 (This varies based on no. of channels)

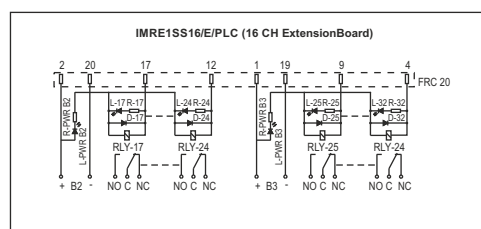
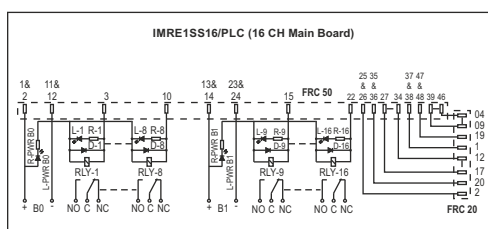
DSUB CONNECTOR MATERIALS

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

RELAY DATA

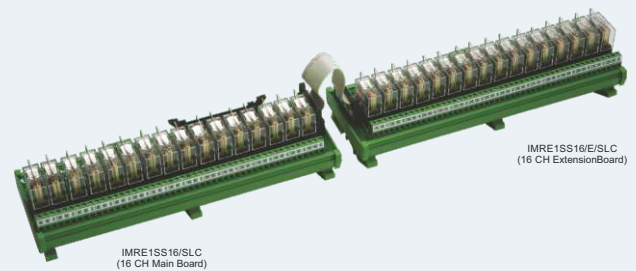
Contact Type	1CO (SPDT)
Standard Coil Voltag	24VDC (Relay coil voltage like 6 VDC, 12 VDC, 48 DC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	AgSnO ₂
Rated Current	10A @230 VAC / 30 VDC

CIRCUIT DIAGRAM



32 I/O INTERFACE MODULES FOR ALLEN BRADLEY SLC 500 PLC

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.



RoHS

ORDERING INFORMATION

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

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

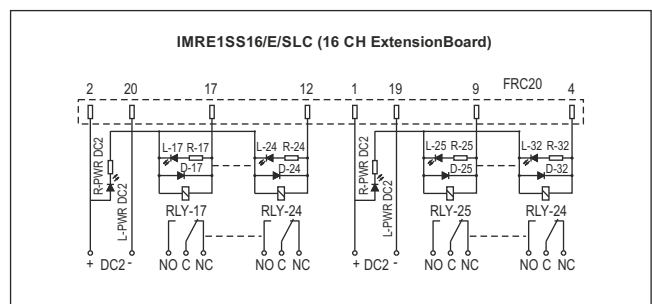
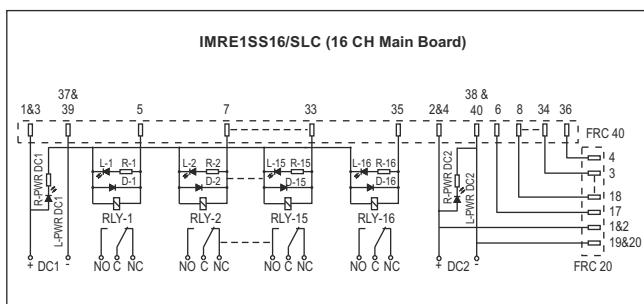
RELAY DATA

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	AgSnO ₂
Rated Current	10A @230 VAC / 30 VDC

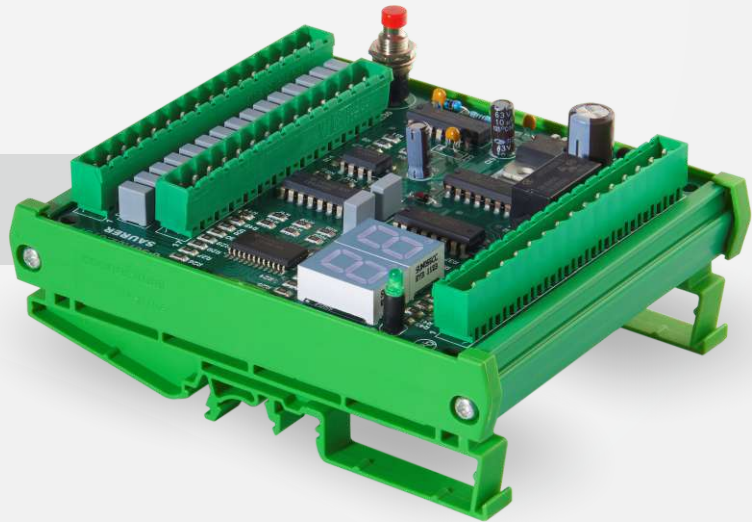
IDC / FRC CONNECTOR DATA

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

CIRCUIT DIAGRAM



Custom Interface Modules



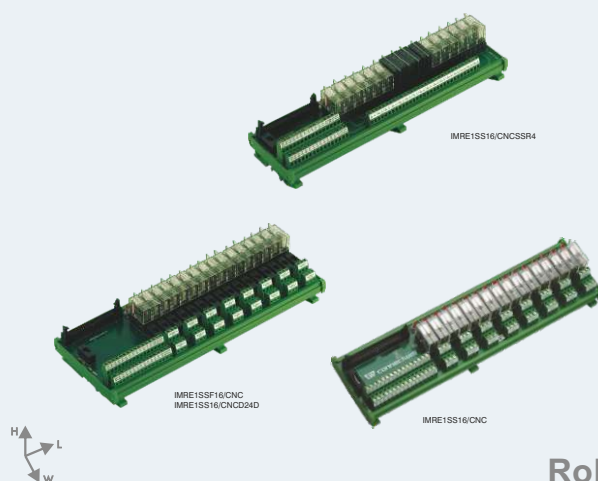
Fan Monitoring & Control Device

Power Supplies



CNC INTERFACE MODULES

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.



RoHS

ORDERING INFORMATION

Module Type	CNC Module	CNC SSR Module	CNC with Fuse Module	CNC SSR with Fuse Module
With Pluggable Relays	IMRE1SS16/OM/CNC	IMRE1SS16/CNCSSRx	IMRE1SSF16/OM/CNC	IMRE1SSF16/CNCD24D
With Soldered Relays	IMRE1S16/OM/CNC	IMRE1S16/CNCSSRx	IMRE1SF16/OM/CNC	IMRE1SF16/CNCD24D
x - no. of SSR				

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

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
Contact Type	1CO (SPDT) 24 VDC
Standard Coil Voltage	(Relay coil voltages like 6 VDC, 12 VDC, 48 VDC, 24 VAC, 110 VAC & 230 VAC etc. are available on request.)
Contact Material	Ag Alloy
Rated Current	10A @230 VAC; 10 @30 VDC

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 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, 0.6, 1, 2, 3, 4, 5, 6, 6.3

SSR OUTPUT DATA

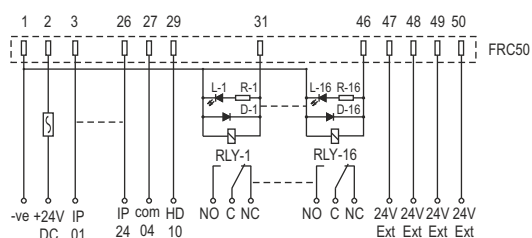
	DC Output	AC Output
Contact Type	1NO (SPST)	1NO (SPST)
Load Voltage Range	3 to 125 VDC	75 to 400 VAC
Load Current Range	0.1 to 2A	0.1 to 3A
Max. Surge Current	10 times of rated current	10 times of rated current
Max. Leakage Current	0.1 mA	1.5 mA
Max. On State Voltage Drop	1.5 VDC	1.5 VAC
Turn-on Time (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

SSR INPUT DATA

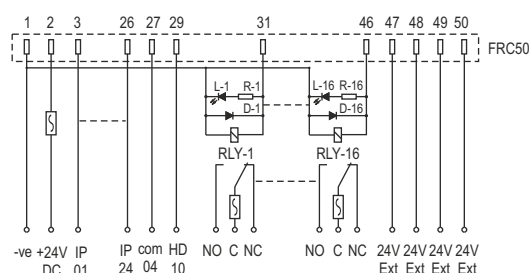
Control Voltage Range	5 VDC	12 VDC	24 VDC
Must Operate Voltage	4 VDC	9.6 VDC	19.2 VDC
Must Release Voltage	1 VDC	1 VDC	1 VDC
Max. Reverse Protection	-6 VDC	-14.4 VDC	-28.8 VDC
Max. Input Current	20 mA	20 mA	20 mA

CIRCUIT DIAGRAM

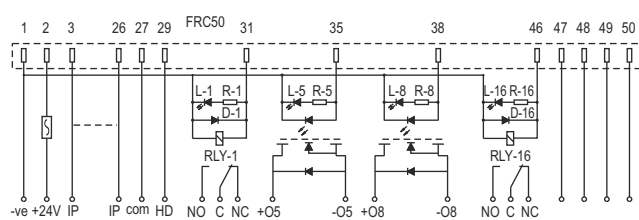
IMRE1SS16/CNC



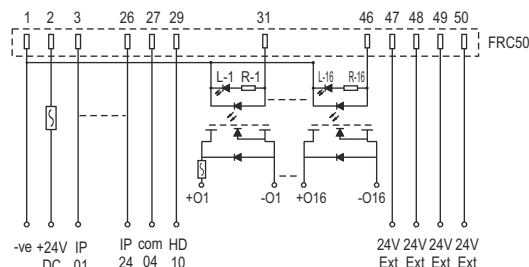
IMRE1SSF16/CNC



IMRE1SS16/CNCSSRx



IMRE1SSF16/CNCSD24D



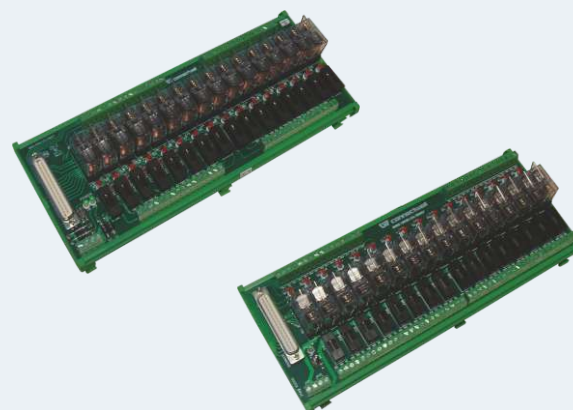
DIGITAL INPUT & DIGITAL OUTPUT RELAY MODULES

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.



RoHS

ORDERING INFORMATION

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

GENERAL DATA

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

* 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 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

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

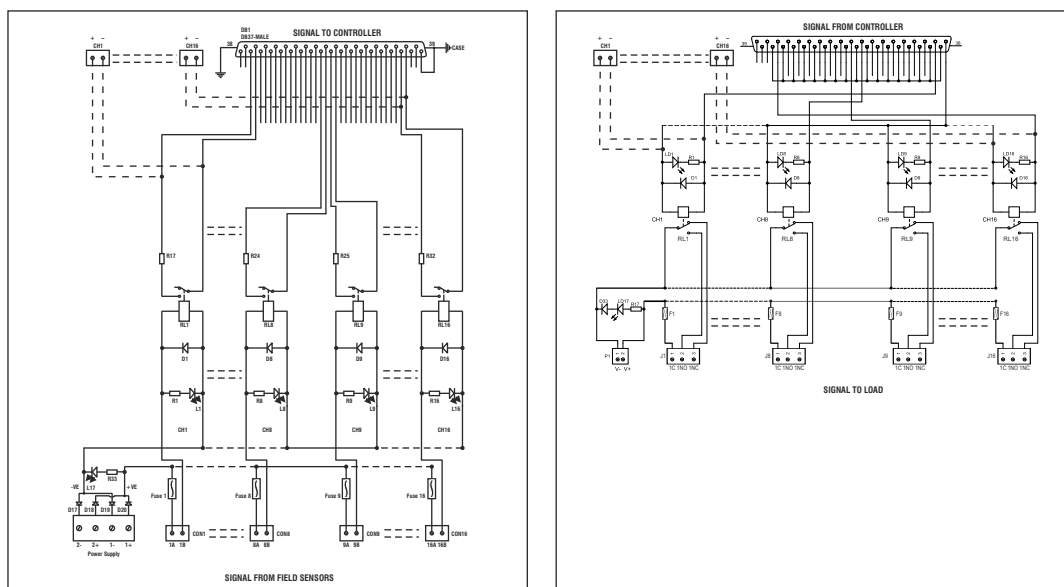
IDC / FRC CONNECTOR DATA

Contact Type	1 CO	2 CO
Contact Material	Ag Alloy	Ag Alloy
Rated Current	10A @250 VAC; 10A @30 VDC	5A @250 VAC; 5A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC	400 VAC, 250 VDC
Timing Data	18,000 operations/hr	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁶ operations	Min. 20 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations	Min. 100 x 10 ³ operations
Relay Approval	   	

IDC / FRC CONNECTOR DATA

Rated Coil Voltage	24 VDC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8 V
Must Release Voltage	2.4 V
Max. Voltage	39.6 V

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	

DB1_PIN 1, 38 & 39: GND, PIN 19, 37, 2 & 20: NULL

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

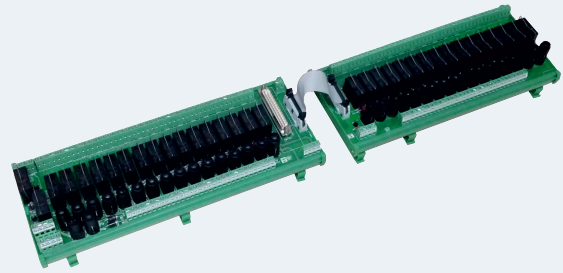
32 CHANNEL DIGITAL INPUT MODULE

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.



RoHS

ORDERING INFORMATION

Cat. No.	Description
IMRE/DI32/24/DM37	2CO 32(MAIN16CH) 24DC BASE DI DB37-FBM217
IMRE/DI32/24/DM37E	2CO 32(EXTN16CH) 24DC BASEDI+CBLE-FBM217

GENERAL DATA

Cat. No.	
IMRE/DI32/24/DM37	310 Length L (mm)*
IMRE/DI32/24/DM37E	270 Length L (mm)*
Number of Channels	16
Width W (mm)	123
Height H (mm)	74
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

DSUB CONNECTOR ELECTRICAL RATINGS

Contact Resistance	15 m ohm maximum at 500 VDC
Current Rating	3A Max
Dielectric Withstanding Voltage	1000 VRMS
Number of Contacts	37

IDC/FRC CONNECTOR DATA

Contact Resistance	30 m ohm maximum at 500 VDC
Current Rating	1.5 A
Dielectric Withstanding Voltage	500 VRMS
Number of Contacts	20

RELAY CONTACT DATA

Contact Type	1 CO	2 CO
Contact Material	Ag Alloy	Ag Alloy
Rated Current	10A @250 VAC; 10A @30 VDC	5A @250 VAC; 5A @24 VDC
Max. Switching Voltage	400 VAC, 250 VDC	400 VAC, 250 VDC
Timing Data	18,000 operations/hr	18,000 operations/hr
Mechanical Life expectancy	Min. 20 x 10 ⁶ operations	Min. 20 x 10 ⁶ operations
Electrical Life expectancy	Min. 100 x 10 ³ operations	Min. 100 x 10 ³ operations
Relay Approvals	   	

D-SUB PIN ASSIGNMENT (DO MODULE)

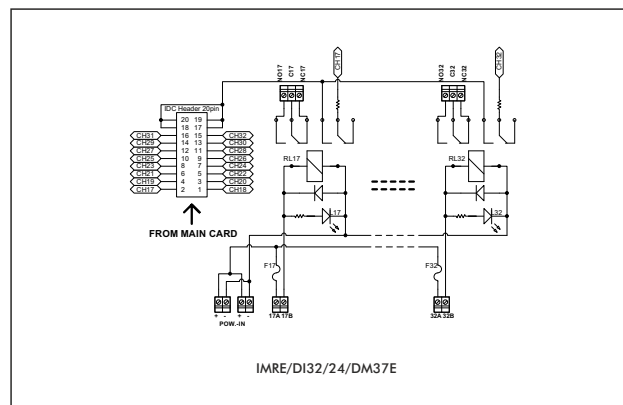
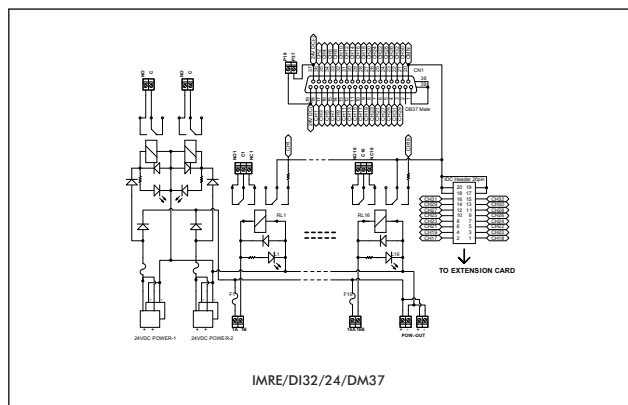
CHANNEL	DB1	FIELD TERMINAL
CH1	18	1A 1B
CH2	36	2A 2B
CH3	17	3A 3B
CH4	35	4A 4B
CH5	16	5A 5B
CH6	34	6A 6B
CH7	15	7A 7B
CH8	33	8A 8B
CH9	14	9A 9B
CH10	32	10A 10B
CH11	13	11A 11B
CH12	31	12A 12B
CH13	12	13A 13B
CH14	30	14A 14B
CH15	11	15A 15B
CH16	29	16A 16B
CH17	10	17A 17B
CH18	28	18A 18B
CH19	9	19A 19B
CH20	27	20A 20B
CH21	7	21A 21B
CH22	25	22A 22B
CH23	8	23A 23B
CH24	26	24A 24B
CH25	5	25A 25B
CH26	23	26A 26B
CH27	6	27A 27B
CH28	24	28A 28B
CH29	3	29A 29B
CH30	21	30A 30B
CH31	4	31A 31B
CH32	22	32A 32B

RELAY COIL DATA

Rated Coil Voltage	24 VDC
Coil Resistance	1100 Ω
Rated Coil Current	21.8 mA
Must Operate Voltage	16.8 V
Must Release Voltage	2.4 V
Max. Voltage	31.2 V

COMMON FOR CH1 to CH3220
 SHORTED TO SHIELD1
 NOT CONNECTED2
 TERMINATED ON PCB TB19
 TERMINATED ON PCB TB37

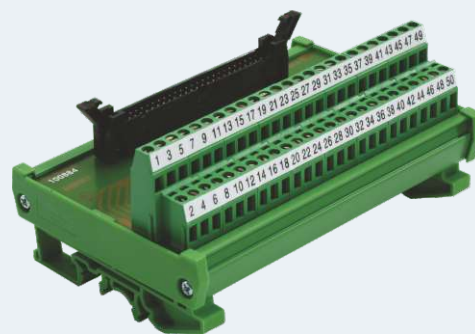
CIRCUIT DIAGRAM



IDC / FRC MODULES

- 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
- DIN Rail 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.



RoHS

ORDERING INFORMATION

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

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

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

* 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.

CONFIGURATIONS **

IDC Modules with 1: 1 Screw Connections: IMIDC/xx/S/L

IDC Modules with 1: 1 Spring Connections: IMIDC/xx/SC/L

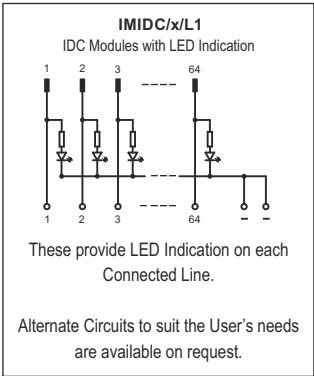
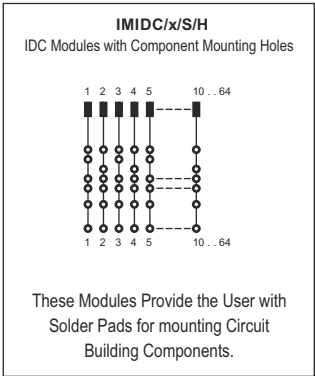
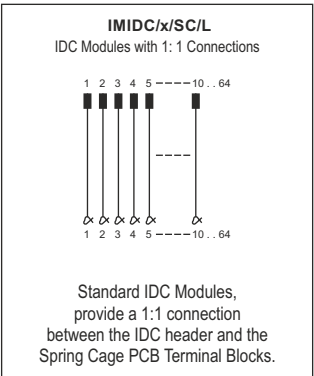
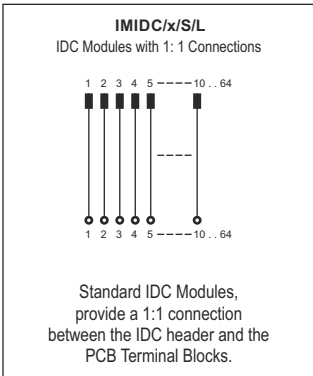
IDC Modules with Component Mounting Holes: IMIDC/xx/H/L
(with 5 component mounting holes / channel)

IDC Modules with LED Indication: IMIDC/xx/L1/L

IDC / FRC CONNECTOR DATA**

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

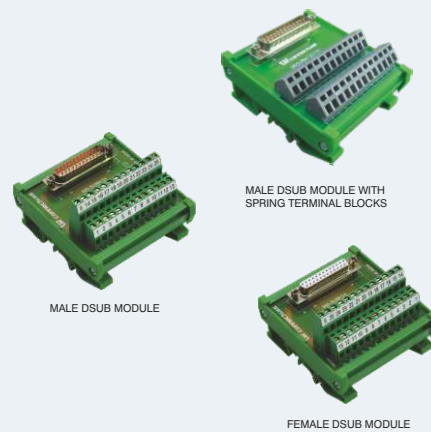
CIRCUIT DIAGRAM



MALE & FEMALE DSUB MODULES

- 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
- DIN Rail 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.



RoHS

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

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 Hole Ømm (optional)	1 mm				

* 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 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 mΩ maximum at 500 VDC
Current Rating	3 A Max
Operation Voltage	250 VAC
Dielectric With standing Voltage	1000 VAC for one minute
Number of Contacts	9, 15, 25, 37, 50

CONFIGURATIONS **

All DSUB Configurations available with Male or Female DSUB Connectors.

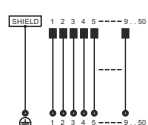
- 1) DSUB Modules with 1: 1 Connections between discrete screw terminals and DSUB pin. (Male: IMDSUBM/xx/S & Female: IMDSUBF/xx/S)
- 2) DSUB Modules with 1: 1 Connections between discrete spring terminals and DSUB pin. (Male: IMDSUBM/xx/S & Female: IMDSUBF/xx/S)
- 3) DSUB Modules with 5 Component Mounting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

DSUB CONNECTOR MATERIALS

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

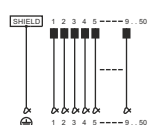
CIRCUIT DIAGRAM

IMDSUBM/x/S



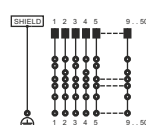
These are the Standard D-SUB Modules which provide 1:1 connection between Double Level Terminal Blocks and Male D-SUB Connectors.

IMDSUBM/x/SC



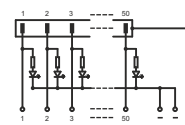
These are the Standard D-SUB Modules which provide 1:1 connection between Spring Cage PCB Terminal Blocks and Male D-SUB Connectors.

IMDSUBM/x/H



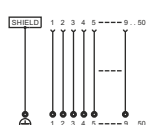
These D-SUB Modules provide the user with Solder Pads for mounting Circuit Building Components.

IMDSUBM/x/L1



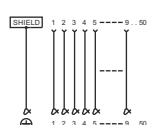
These provide LED Indication on each Connected Line.
Alternate Circuits to suit the user's needs are available on request.

IMDSUBF/x/S



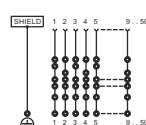
These are the Standard D-SUB Modules which provide 1:1 connection between Double level Terminal Blocks and Female D-SUB Connectors.

IMDSUBF/x/SC



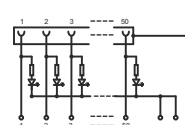
These are the Standard D-SUB Modules which provide 1:1 connection between Spring Cage PCB Terminal Blocks and Female D-SUB Connectors.

IMDSUBF/x/H



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

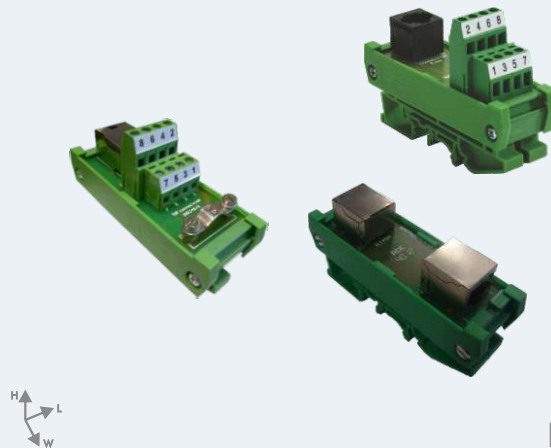
IMDSUBF/x/L1



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

RJ45 INTERFACE MODULES

- Ease of connection with the use of standard screw connection Terminal Blocks.
- DIN Rail 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.



RoHS

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 (L: 83 x W:88 x H:65)

GENERAL DATA

	Non Shielded	Shielded
Width (mm)	88	88
Height (mm)	65	65
Length (mm)*	30	36
RJ45 Connector Orientation	Vertical / Horizontal	
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.

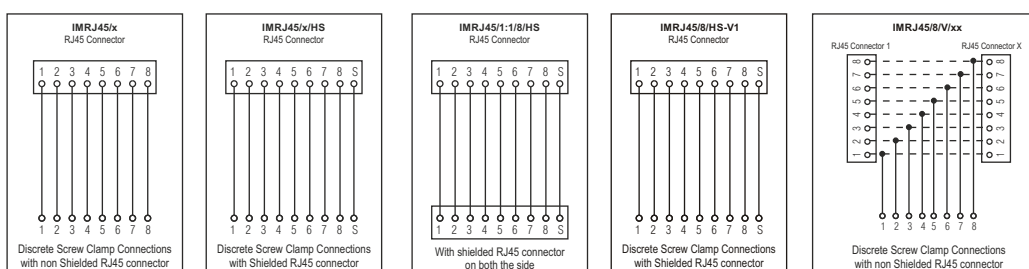
CONNECTION DATA

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

RJ45 CONNECTOR DATA

Voltage Rating	125 VAC RMS.
Current Rating	1.5 AMP
Contact Resistance	30 mΩ max.
Housing Material	Glass Filled Polyester UL94V-0
Housing Color	Black
Contact Material	Phosphor Bronze (Internal Dia. 0.46mm)
Contact Plating	Gold Flash Plating Over Nickel
Shield Material	0.23 Thickness Brass with Nickel Plating

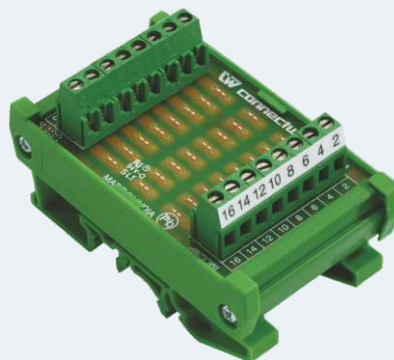
CIRCUIT DIAGRAM



COMPONENT CARRIER MODULES

- 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
- DIN Rail 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

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



RoHS

ORDERING INFORMATION

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

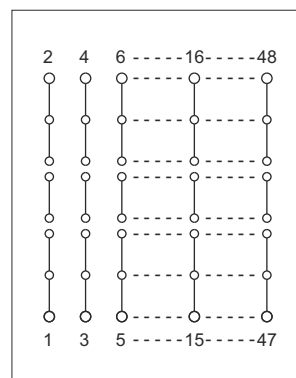
GENERAL DATA

Number of Channels	4	8	12	16	20	24
Width W (mm)	88	88	88	88	88	88
Height H (mm)	51	51	51	51	51	51
Length L (mm)*	32	53	73	93	113	133
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					

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

CIRCUIT DIAGRAM

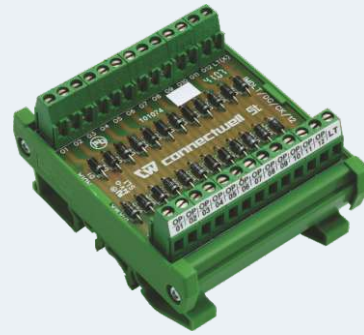


* Module Lengths mentioned are for RAIL Mounting option only. The lengths may vary for PANEL Mounting

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

DIODE & LAMP TEST MODULES

- 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
- DIN Rail Mounting



RoHS

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	-	-
10	IMD/S/10	-	-
12	IMD/S/12	-	-
14	-	IMD/CA/14	IMD/CK/14
16	IMD/S/16	IMD/CA/16	-
20	IMD/S/20	IMD/CA/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	-	-
8	IMDLT/DC/S/8	-	IMDLT/DC/CK/8
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	-
24	-	IMDLT/DC/CA/24	-

AC Lamp Test Modules

# of Channels	Cat. No.
5	IMDLT/AC/5
10	IMDLT/AC/10
22	IMDLT/AC/22

DIMENSIONAL DATA

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
Length L (mm) **											
Individual Diode Modules	32	-	-	53	63	73	-	95	113	-	133
Common Anode Diode Modules	-	-	32	-	-	-	53	58	73	73	-
Common Cathode Diode Modules	-	-	32	-	-	-	53	-	-	73	-
Individual Lamp Test Modules	-	63	76	-	113	-	-	-	-	-	-
Common Anode Lamp Test Modules	-	38	-	-	63	73	-	90	-	-	138
Common Cathode Lamp Test Modules	-	38	-	57	63	73	-	-	-	-	-
AC Lamp Test Modules	-	40	-	-	63	-	-	-	-	-	-

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

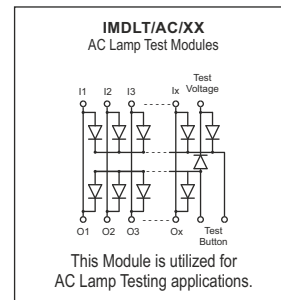
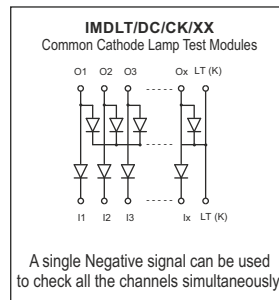
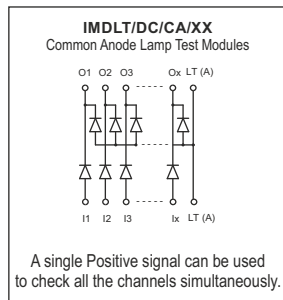
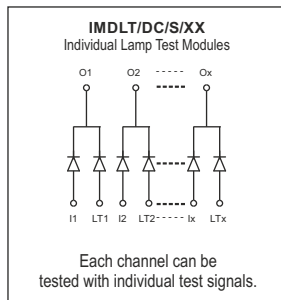
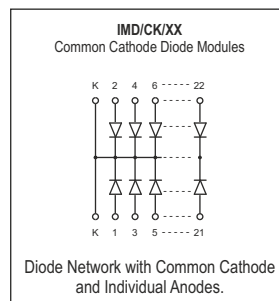
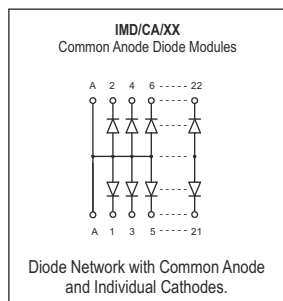
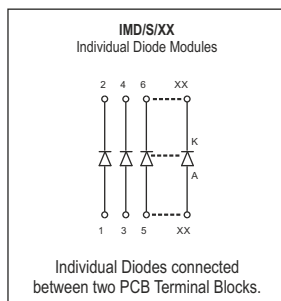
DIODE DATA

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	500 μ A @ TA = 25°C and 30 μ A
rated DC blocking voltage	@ TA = 100°C

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

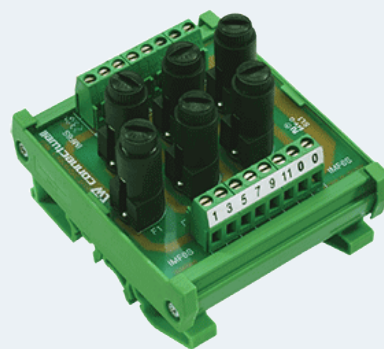
** PANEL Mounting relay modules are available on request. Please use the suffix -P with the cat. no. for ordering.

CIRCUIT DIAGRAM



STANDARD FUSE MODULES

- 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
- DIN Rail Mounting
- Housed in V0 fire retardant grade PVC mounting track
- LED warning possible for fuse blow indication



RoHS

ORDERING INFORMATION

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

CONNECTION SPECIFICATIONS

Type of Connection	Screw Connection
Min. Wire Size	0.5 sq.mm
Max. Wire Size	2.5 sq.mm
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	4.5 lb-in
Torque	0.5 Nm

OUTPUT DATA

Number of Channels	2	4	8	16
Width W (mm)	120	120	120	120
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

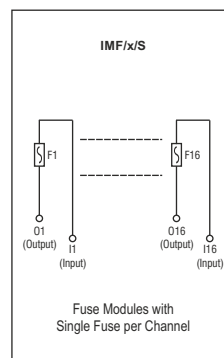
FUSE SPECIFICATIONS

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

FUSE HOLDER SPECIFICATIONS

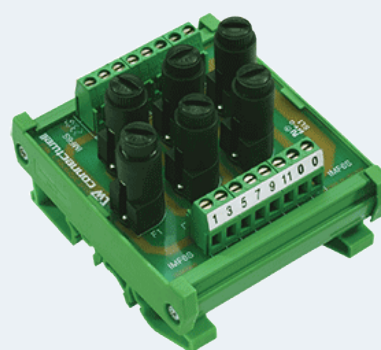
Mounting Type	PCB-type Horizontal / Vertical
Terminals Type	Solder-type
Cap Design	Flat / Screw in with Coin slot
Fuse Size	5 x 20 mm
Contact Material	Brass Tin Plated
Insulation	Polymide G.F
Rated Current	6.3 A
Contact	10 m ohms max.

CIRCUIT DIAGRAM



FUSE MODULES WITH FUSE FAIL INDICATION

- 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
- DIN Rail Mounting
- Housed in V0 fire retardant grade PVC mounting track
- LED warning possible for fuse blow indication



RoHS

ORDERING INFORMATION

# of Channels		Cat. No.
2	24 V AC/DC	IMFI/2/S/24
4	24 V AC/DC	IMFI/4/S/24
8	24 V AC/DC	IMFI/8/S/24
16	24 V AC/DC	IMFI/16/S/24
2	110 V AC/DC	IMFI/2/S/110
4	110 V AC/DC	IMFI/4/S/110
8	110 V AC/DC	IMFI/8/S/110
16	110 V AC/DC	IMFI/16/S/110
2	230 V AC/DC	IMFI/2/S/230
4	230 V AC/DC	IMFI/4/S/230
8	230 V AC/DC	IMFI/8/S/230
16	230 V AC/DC	IMFI/16/S/230

CONNECTION DATA

Type of Connection	Screw Connection
Min. Wire Size	0.5 sq.mm
Max. Wire Size	2.5 sq.mm
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	4.5 lb-in
Torque	0.5 Nm

FUSE SPECIFICATIONS

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

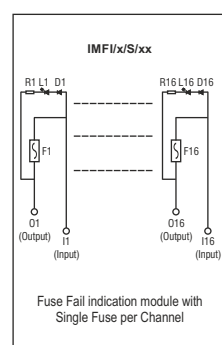
OUTPUT DATA

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	50	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			

FUSE HOLDER SPECIFICATIONS

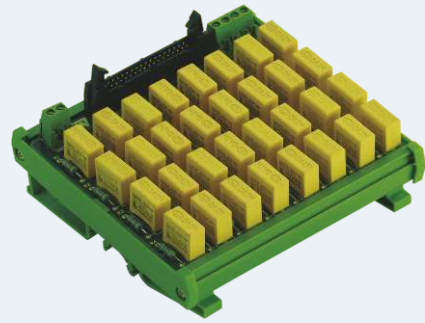
Mounting Type	PCB-type Horizontal / Vertical
Terminals Type	Solder-type
Cap Design	Flat / Screw in with Coin slot
Fuse Size	5 x 20 mm
Contact Material	Brass Tin Plated
Insulation	Polymide G.F
Rated Current	6.3 A
Contact	10 m ohms max.

CIRCUIT DIAGRAM



32 CHANNEL RC MODULE

- 16/ 32 Channel resistor - capacitor (RC) circuit built-in
- Highly compact in size
- Other capacitor values are also available on request
- DIN Rail Mounting



RoHS

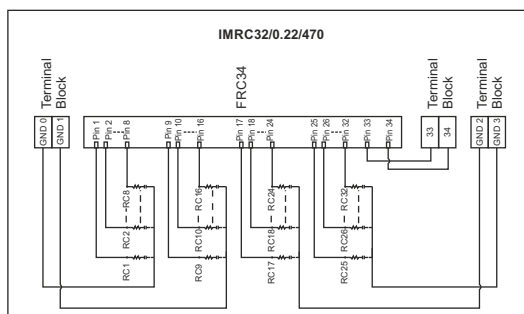
ORDERING INFORMATION

Module Specifications	Cat. No.
0.22 μ F 275 VAC, 470 Ω ½ W 16 Channel	IMRC16/0.22/470
0.22 μ F 275 VAC, 470 Ω 2 W 16 Channel	IMRC16/0.22/470/2W
0.22 μ F 275 VAC, 1K Ω 2 W 16 Channel	IMRC16/0.22/1k/2W
0.22 μ F 275 VAC, 470 Ω ½ W 32 Channel	IMRC32/0.22/470
0.22 μ F 275 VAC, 470 Ω 2 W 32 Channel	IMRC32/0.22/470/2W
0.22 μ F 275 VAC, 1K Ω 2 W 32 Channel	IMRC32/0.22/1k/2W

OUTPUT DATA

Number of Channels	32
Description	(0.22 μ F 275VAC, 47 Ω ½ Watt)Resistor- apacitor(RC) Module Rail Mount (0.22 μ F 275VAC, 470 2 Watt)Resistor- apacitor(RC) Module Rail Mount (0.22 μ F 275VAC, 1K 2Watt)Resistor- apacitor(RC) Module Rail Mount
Width	128
Height	120
Depth	74
Ambient Operating Temperature	-20°C ... +50°C
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Housing Material	PVC / V0 Grade
Housing Colour	Green

CIRCUIT DIAGRAM



CONNECTION DATA

Type of Connection	Screw Connection
Min. Wire Size	0.5 sq.mm
Max. Wire Size	2.5 sq.mm
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	4.5 lb-in
Torque	0.5 Nm

RC SPECIFICATIONS

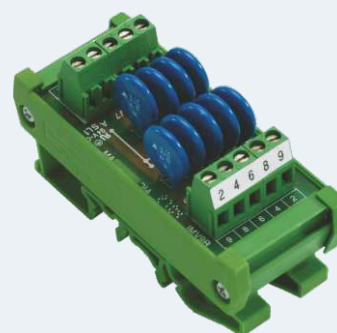
Capacitor Type	MPX(Class-X2)
Capacitance Value	0.22 microFarad ,275 V
Capacitance Tolerance	+/- 20%
Resistance Value	470 ohm 2 Watt / 1k ohm 2 watt

IDC/RFC CONNECTOR SPECIFICATION

Housing Material	PBT,glass reinforced
Housing Colour	Black/Gray
Contact Material	Brass
Rated Current / Pin	2A
Contact Resistance	30 m Ω maximum
Dielectric Withstanding Voltage	500 VAC for 1 minute
Insulation Resistance	3000 M Ω minimum
IDC / FRC Connector Approvals	

VARISTOR MODULES

- 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



RoHS

ORDERING INFORMATION

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

GENERAL DATA

Number of channels	3	5	8	9	14
Width W (mm)	88	88	88	88	88
Height H (mm)	65	65	65	65	65
Length L (mm) *	31	27	53	37	53
Ambient Temperature (Operation)	-20°C ... +50°C				
Mounting Types **	DIN32 / DIN35 / DIN35-15 / PANEL **				
Housing insulation material	PVC / V0 Grade				
Housing Colour	Green				

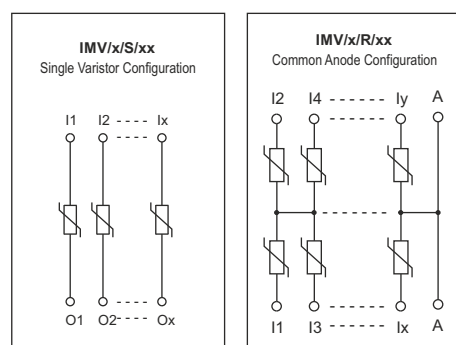
CONNECTION DATA

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

VARISTOR DATA

Number of channels	3	5	8914
Varistor Type	14r μ m Diameter		
Varistor Rating ***	50V	130V	275V
Maximum Allowable Voltage AC	50	130	275
Maximum Allowable Voltage DC	65	170	350
Varistor Voltage	59~71	153~187	315~385
Clamping Voltage _v	135	340	710
Rated Wattage (Max.)W		0.6	
Maximum Energy (2 μ s)joule	15	34	71
Surge Current (8/20 μ s) A	4500		
Response Time	< 25 ns		
CONFIGURATIONS			
Varistor Modules with Single Varistor per Channel : IMV/x/S/xx			
Varistor Modules with Common anode configuration : IMV/x/R/xx			

CIRCUIT DIAGRAM



* 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.