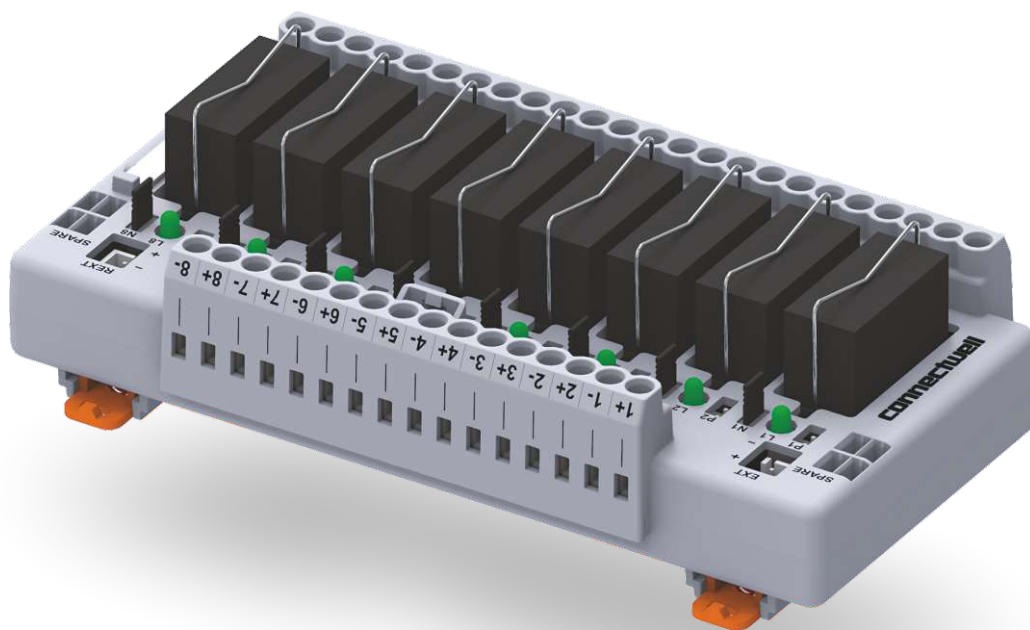


NEXT GENERATION RELAY INTERFACE MODULES



BUILT TO DELIVER **VALUE**

Maximise flexibility and safety in automation with Connectwell's completely enclosed, DIN rail-mounted, compact CIMRE Relay Modules. A first-in-class design, this IP20 finger-safe product offers flexible and modular configurations for connecting 2 to 32 channels of electrical signals between PLCs and field devices.

Fully
enclosed
IP20 rated
design



True
10 AMPERES
performance



**EASE OF
WIRE ENTRY**
clearly visible
status indicators



**COMPACT
& SECURE**
mounting



Custom
configuration upto
32 CHANNELS



Pre-installed
long tail
JUMPERS



Industry first long-life
LASER MARKING
for circuit identification



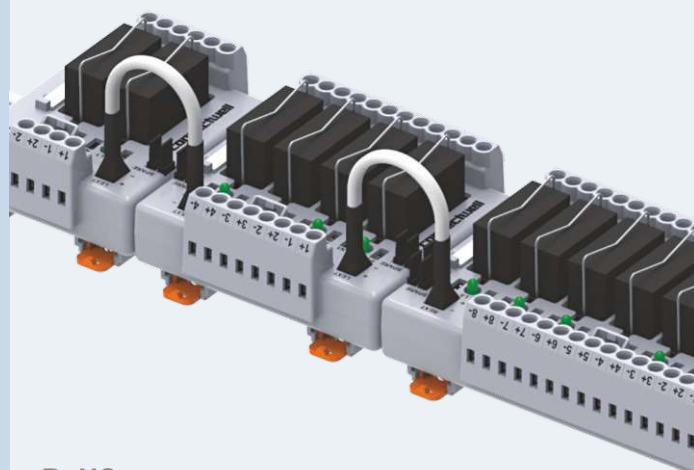
Additional
ALL AXIS
marking provision



NEXT GENERATION RELAY MODULES

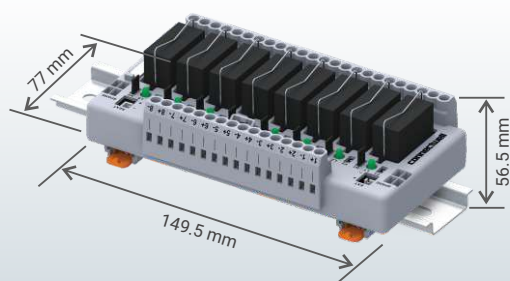
1 Change Over

- Fully-enclosed IP20 rated design
- Custom configurations up to 32 channels
- True 10 Amperes performance
- Ease of wire entry, clearly visible status indicators
- Pre-installed long tail jumpers
- Industry first long-life laser marking for circuit identification
- Compact and secure mounting
- Additional all-axis marking provision
- Easy to replace pluggable relays
- Freewheeling diode protection for DC coil
- Variety of operating voltage



RoHS

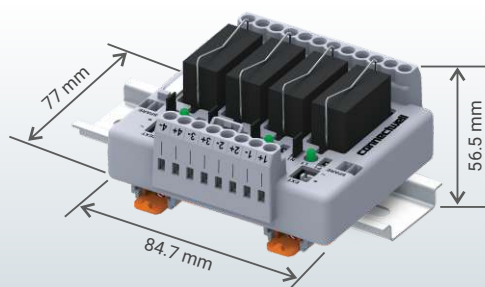
8 Channel, 1 Changeover (SPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12 VDC	CIMRE1SS8/12/OM	CIMRE1S8/12/OM	1
24 VDC	CIMRE1SS8/24/OM	CIMRE1S8/24/OM	1
24 VAC	CIMRE1SS8/24A/OM	CIMRE1S8/24A/OM	1
110 VAC	CIMRE1SS8/110A/OM	CIMRE1S8/110A/OM	1
230 VAC	CIMRE1SS8/230A/OM	CIMRE1S8/230A/OM	1

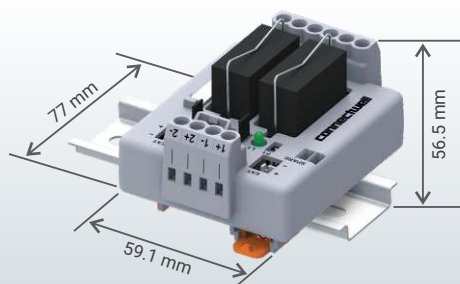
4 Channel, 1 Changeover (SPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12 VDC	CIMRE1SS4/12/OM	CIMRE1S4/12/OM	1
24 VDC	CIMRE1SS4/24/OM	CIMRE1S4/24/OM	1
24 VAC	CIMRE1SS4/24A/OM	CIMRE1S4/24A/OM	1
110 VAC	CIMRE1SS4/110A/OM	CIMRE1S4/110A/OM	1
230 VAC	CIMRE1SS4/230A/OM	CIMRE1S4/230A/OM	1

2 Channel, 1 Changeover (SPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12 VDC	CIMRE1SS2/12/OM	CIMRE1S2/12/OM	1
24 VDC	CIMRE1SS2/24/OM	CIMRE1S2/24/OM	1
24 VAC	CIMRE1SS2/24A/OM	CIMRE1S2/24A/OM	1
110 VAC	CIMRE1SS2/110A/OM	CIMRE1S2/110A/OM	1
230 VAC	CIMRE1SS2/230A/OM	CIMRE1S2/230A/OM	1

Note - Product height shown is for pluggable relay (G2R) modules mounted on DIN 35 x 7.5 mm Rail.
 - For soldered module product height will be 13 mm less than pluggable relay modules.
 - Modules are preconfigured to common negative

GENERAL DATA

Supply Voltage Indication	3 mm Green LED
Ambient Operating Temperature	-20° to 50° C
Mounting Possibility	DIN 35 / DIN 35-15 Rail
Housing Material	Polycarbonate
Housing Colour	Grey
Relay Protection (DC Variant)	Using 1N4007 Free Wheeling Diode
Bussing Possibility	Yes, With long tail jumpers
Standard	IEC 60664

CONNECTION DATA

Type of Connection	Screw Connection
Min. Wire Size (mm²)	0.2 mm²
Max. Wire Size (mm²)	2.5 mm²
Min. Wire Size (AWG)	22 AWG
Max. Wire Size (AWG)	14 AWG
Wire Stripping Length	8 mm
Applicable Torque	0.4 Nm (3.5 lb.in)
Screw Size	M2.5

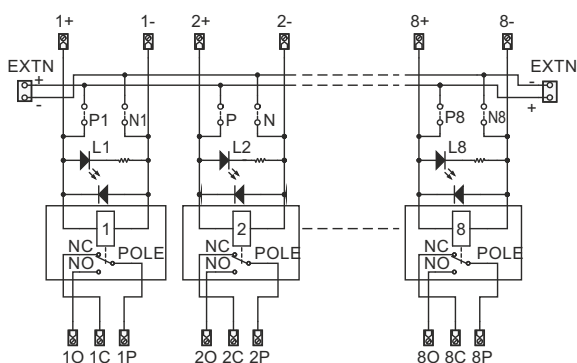
RELAYS

Operating Voltage	Part Number	Standard Pack
12 VDC / OMRON	IMACC/G2RL1/12DC	50
24 VDC / OMRON	IMACC/G2RL1/24DC	50
24 VAC / OMRON	IMACC/G2RL1/24AC	50
110 VAC / OMRON	IMACC/G2RL1/110AC	50
230 VAC / OMRON	IMACC/G2RL1/230AC	50

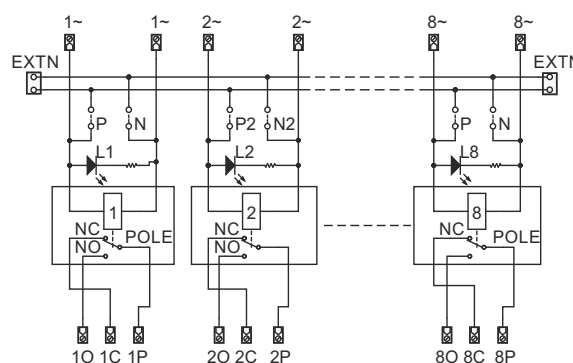
ACCESSORIES

Operating Voltage	Part Number	Standard Pack
Extension Cable	IMACC/CIMRE/EXT	10
DIN Rail 35 - 1 meter	CA701-1M / CA701-1M-S	50
DIN Rail 35 - 2 meter	CA701-2M / CA701-2M-S	50
Group Marker	GMH8 / GMH8N	100
Screwdriver	SCS0.5/3	10

Circuit Diagram - For DC operating voltage Relay Modules



Circuit Diagram - For AC operating voltage Relay Modules



RELAY DATA

RELAY COIL DATA

Rated Coil Voltage (V)	12 VDC	24 VDC	24 VAC	110 VAC	220 VAC
Coil Resistance (ohms)	275	1440	260	4600	20,200
Rated Coil Current (mA)	43.6	16.7	46.5	11	5.5
Must Operate / Must Release Voltage (V)	8.4 / 1.8	16.8 / 2.4	19.2 / 7.2	88 / 33	176 / 66
Max. Voltage	13.2	31.2	26.4	121	242
Nominal Input Power	530 mW	400 mW	0.9 VA	0.9 VA	0.9 VA

RELAY CONTACT DATA

Contact Type	1CO (SPDT)	1CO (SPDT)	1CO (SPDT)	1CO (SPDT)	1CO (SPDT)
Contact Material	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)
Rated Current(resistive)	10A@250VAC/24VDC	12A@250VAC/24VDC	10A@250VAC/24VDC	10A@250VAC/24VDC	10A@250VAC/24VDC
Max. Switching Voltage	380VAC,125VDC	440VAC,300VDC	380VAC,125VDC	380VAC,125VDC	380VAC,125VDC
Turn-Off Time / Turn-On Time	5 ms / 15 ms	5 ms / 15 ms	5 ms / 15 ms	10 ms / 15 ms	10 ms / 15 ms
Max. Mech Operating Freq. (At Rated Load)	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr
Max. Elect Operating Freq. (At Rated Load)	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr
Mechanical Life expectancy	20 x 10 ⁶	20 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶
Electrical Life expectancy	100 x 10 ³	50 x 10 ³	100 x 10 ³	100 x 10 ³	100 x 10 ³

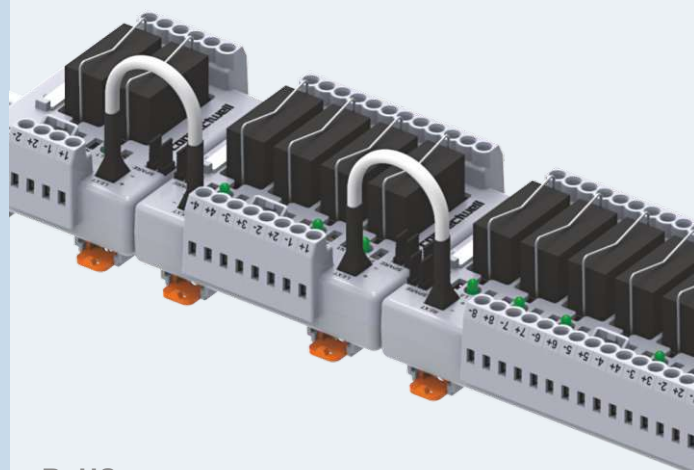
RELAY GENERAL DATA

Relay Make/Series	OMRON/G2RL-1	OMRON/G2RL-1	OMRON/G2RL-1	OMRON/G2RL-1	OMRON/G2RL-1
Dielectric Strength (Between coil & contacts)	5000 VAC	5000 VAC	5000 VAC	5000 VAC	5000 VAC
Dielectric Strength (Between contacts)	1000 VAC	1000 VAC	1000 VAC	1000 VAC	1000 VAC

NEXT GENERATION RELAY MODULES

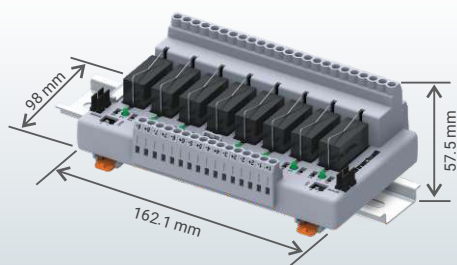
2 Change Over

- Fully-enclosed IP20 rated design
- Custom configurations up to 32 channels
- True 5 Amperes performance
- Ease of wire entry, clearly visible status indicators
- Pre-installed long tail jumpers
- Industry first long-life laser marking for circuit identification
- Compact and secure mounting
- Additional all-axis marking provision
- Easy to replace pluggable relays
- Freewheeling diode protection for DC coil
- IP 20 protection Class
- Variety of operating voltage



RoHS

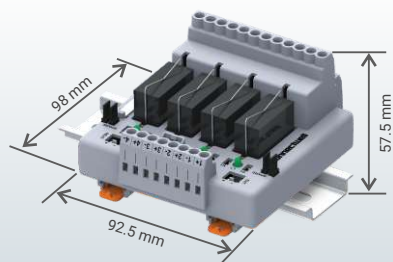
8 Channel, 2 Changeover (DPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12VDC	CIMRE2SS8/12/OM	CIMRE2S8/12/OM	1
24VDC	CIMRE2SS8/24/OM	CIMRE2S8/24/OM	1
24VAC	CIMRE2SS8/24A/OM	CIMRE2S8/24A/OM	1
110VAC	CIMRE2SS8/110A/OM	CIMRE2S8/110A/OM	1
230VAC	CIMRE2SS8/230A/OM	CIMRE2S8/230A/OM	1

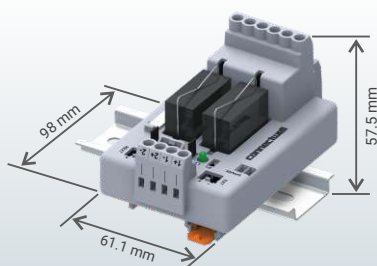
4 Channel, 2 Changeover (DPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12VDC	CIMRE2SS4/12/OM	CIMRE2S4/12/OM	1
24VDC	CIMRE2SS4/24/OM	CIMRE2S4/24/OM	1
24VAC	CIMRE2SS4/24A/OM	CIMRE2S4/24A/OM	1
110VAC	CIMRE2SS4/110A/OM	CIMRE2S4/110A/OM	1
230VAC	CIMRE2SS4/230A/OM	CIMRE2S4/230A/OM	1

2 Channel, 2 Changeover (DPDT)



Ordering Information

Operating Voltage	Part Number with Pluggable Relay	Part Number with Soldered Relay	Std. Pack
12VDC	CIMRE2SS2/12/OM	CIMRE2S2/12/OM	1
24VDC	CIMRE2SS2/24/OM	CIMRE2S2/24/OM	1
24VAC	CIMRE2SS2/24A/OM	CIMRE2S2/24A/OM	1
110VAC	CIMRE2SS2/110A/OM	CIMRE2S2/110A/OM	1
230VAC	CIMRE2SS2/230A/OM	CIMRE2S2/230A/OM	1

Note - Product height shown is for pluggable relay modules mounted on DIN 35 x 7.5 mm Rail.
 - Modules are pre-configured to common negative

GENERAL DATA

Supply Voltage Indication	3 mm Green LED
Ambient Operating Temperature	-20° to 50° C
Mounting Possibility	DIN 35 / DIN 35-15 Rail
Housing Material	Polycarbonate
Housing Colour	Grey
Relay Protection (DC Variant)	Using 1N4007 Free Wheeling Diode
Bussing Possibility	Yes, With long tail jumpers
Standard	IEC 60664

CONNECTION DATA

Type of Connection	Screw Connection
Min. Wire Size (mm²)	0.2 mm²
Max. Wire Size (mm²)	2.5 mm²
Min. Wire Size (AWG)	22 AWG
Max. Wire Size (AWG)	14 AWG
Wire Stripping Length	8 mm
Applicable Torque	0.4 Nm (3.5 lb.in)
Screw Size	M2.5

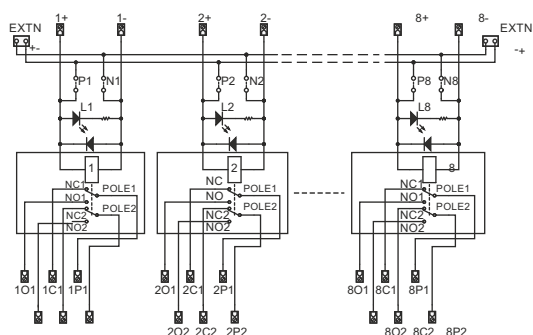
RELAYS

Operating Voltage	Part Number	Standard Pack
12 VDC / OMRON	IMACC/G2RL2/12DC	50
24 VDC / OMRON	IMACC/G2RL2/24DC	50
24 VAC / OMRON	IMACC/G2RL2/24AC	50
110 VAC / OMRON	IMACC/G2RL2/110AC	50
230 VAC / OMRON	IMACC/G2RL2/230AC	50

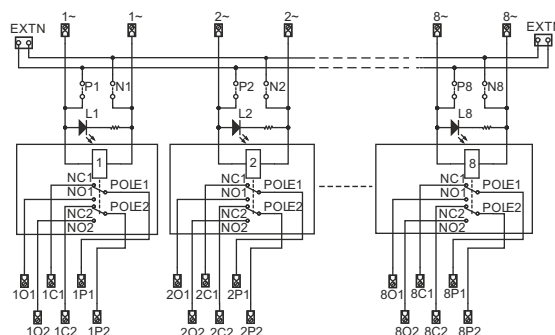
ACCESSORIES

Operating Voltage	Part Number	Standard Pack
Extension Cable	IMACC/CIMRE/EXT	10
DIN Rail 35 - 1 meter	CA701-1M / CA701-1M-S	50
DIN Rail 35 - 2 meter	CA701-2M / CA701-2M-S	50
Group Marker	GMH8 / GMH8N	100
Screwdriver	SCS0.5/3	10

Circuit Diagram - For DC operating voltage Relay Modules



Circuit Diagram - For AC operating voltage Relay Modules



RELAY DATA

RELAY COIL DATA

Rated Coil Voltage (V)	12 VDC	24 VDC	24 VAC	110 VAC	220 VAC
Coil Resistance (ohms)	275	1440	260	4600	20,200
Rated Coil Current (mA)	43.6	16.7	46.5	11	5.5
Must Operate / Must Release Voltage (V)	8.4 / 1.8	16.8 / 2.4	19.2 / 7.2	88 / 33	176 / 66
Max. Voltage	13.2	31.2	26.4	121	242
Nominal Input Power	530 mW	400 mW	0.9 VA	0.9 VA	0.9 VA

RELAY CONTACT DATA

Contact Type	2CO (DPDT)	2CO (DPDT)	2CO (DPDT)	2CO (DPDT)	2CO (DPDT)
Contact Material	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)	Ag-alloy (Cd free)
Rated Current(resistive)	5A@250VAC/30VDC	8A@250VAC/30VDC	5A@250VAC/24VDC	5A@250VAC/30VDC	5A@250VAC/30VDC
Max. Switching Voltage	380VAC,125VDC	440VAC,300VDC	380VAC,125VDC	380VAC,125VDC	380VAC,125VDC
Turn-Off Time / Turn-On Time	5 ms / 15 ms	5 ms / 15 ms	5 ms / 15 ms	10 ms / 15 ms	10 ms / 15 ms
Max. Mech Operating Freq. (At Rated Load)	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr	18000 Opr./Hr
Max. Elect Operating Freq. (At Rated Load)	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr	1,800 Opr./Hr
Mechanical Life expectancy	20 x 10 ⁶	20 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶
Electrical Life expectancy	100 x 10 ³	30 x 10 ³	100 x 10 ³	100 x 10 ³	100 x 10 ³

RELAY GENERAL DATA

Relay Make/Series	OMRON/G2RL-2	OMRON/G2RL-2	OMRON/G2RL-2	OMRON/G2RL-2	OMRON/G2RL-2
Dielectric Strength (Between coil & contacts)	5000 VAC	5000 VAC	5000 VAC	5000 VAC	5000 VAC
Dielectric Strength (Between contacts)	1000 VAC	1000 VAC	1000 VAC	1000 VAC	1000 VAC