

### Relay Module 1CO 2 Channel 12VDC (SPDT)

Fully-enclosed IP20 rated design

Custom configurations up to 32 channels

Long Tail Jumpers.

Ergonomic for wiring ease

High quality standards and approvals

Long-life laser marking

Additional all-axis marking provision

Over voltage category: III

Pollution degree :2

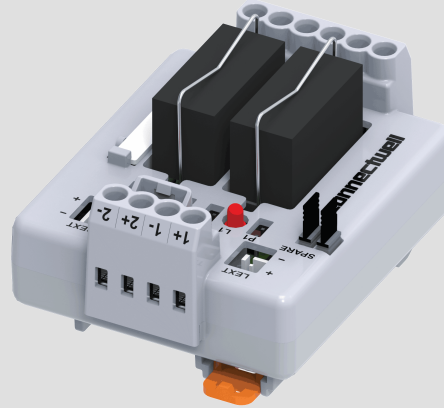
Option to select Pluggable/Soldered Relays

Standard and reverse type marking option available.

Low Coil Drive Current (4.7 mA to 100 mA).

LED indication to denote relay actuation.

Freewheeling diode across relay coil.



#### TECHNICAL DATA

Bussing Possibility	By using spare jumpers. *****
Supply Voltage Indication	3mm Red LED
Relay Protection Method	Using 1N4007 Free Wheeling Diode
Ambient Operating Temperature	-20 to 50 °C
Mounting Possibility	DIN 35/DIN 35-15 Rail
Housing Material	PC
Housing Colour	Grey
Rated Input voltage	12 VDC
Rated output Current/channel	10 A

#### RELAY GENERAL SPECIFICATIONS

Relay Type	Electromechanical Relay
Relay Make / Manufacturer	Omron-G2RL1 DC12
Dielectric Strength	Between Coil & Contact - 5000VAC Between Contacts - 1000VAC
Insulation Resistance	1000 Mohm
Relay Approvals	UL, CSA, VDE, SEMKO

#### RELAY INPUT / COIL SPECIFICATIONS

Nominal Operating Voltage	12 VDC
Nominal Input Current	33.3 mA
Maximum Operating Voltage	15.6 VDC
Must Operate Voltage	8.4 VDC
Must Release Voltage	1.2 VDC
Nominal Input Power	400 mW

#### RELAY INPUT / COIL SPECIFICATIONS

Coil Resistance	360 Ω
-----------------	-------

#### RELAY OUTPUT/CONTACT SPECIFICATIONS

Contact Type	SPDT - 1CO
Contact Material	Ag-alloy (Cd free)
Contact Resistance	30 mΩ max.
Rated Contact Current (Resistive Load)	10 A
Load Voltage Range	250VAC/30VDC
Maximum Switching Voltage	380VAC/125VDC V
Maximum Operating Frequency	18,000 Opr./Hr ( Mechanically)
Turn-Off Time	5ms (Without Diode)
Turn-On Time (0 Cross Turn On)	15ms (Without Diode)

#### CONNECTION SPECIFICATIONS

Type of Connection	Screw Connection
Min. Wire Size	0.5 mm²
Max. Wire Size	2.5 mm²
Min. Wire Size(AWG)	20 AWG
Max. Wire Size(AWG)	12 AWG
Screw Size	M2.5
Wire Stripping Length	8 mm
Torque	0.4 Nm
Torque	3.5 lb-in

# CIMRE1SS2/1 2/OM



**connectwell**  
THE RIGHT CONNECTION

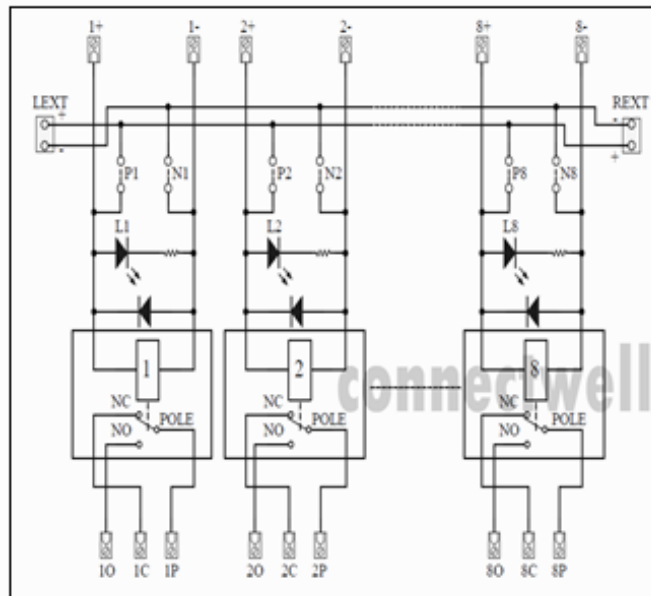
## ORDERING INFORMATION

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
CIMRE1SS2/12/OM	1CO 2CH 12VDC CW Relay Module With Base (Pluggable Relay) Rail Mount	2	59.1 x 77 x 54	1
CIMRE1S2/12/OM	1CO 2CH 12VDC CW Relay Module With Soldered Relay Rail Mount	2	59.1 x 77 x 50	1

## ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	SCS0.5/3	Electricians Screwdriver for slotted screws	10
	GMH8	Group Marker suitable for mounting on CA103	100
	GMH8N	Group Marker suitable for mounting on CA103	100
	IMACC/G2RL1-12DC	RELAY 1CO 12VDC	10
	IMACC/CIMRE/EXT	Extension Cable for CIMRE	50

## CIRCUIT DIAGRAM



## NOTES

\*\*\*Module with Other Coil Voltage like 6 VDC, 48 VDC, 24 VAC, etc. are available on request. All values in the are the initial values at 23°C.  
\*\*\*\* Module is Factory-built common negative, To change to common positive move the Jumpers to PC.  
\*\*\*\*\* To use as a standard module without bussing put the jumpers into spare parking space available on Module.

All values in the are the initial values at 23°C.