

# IMRE1SS16/C NC



**connectwell**  
THE RIGHT CONNECTION

## 16 I/O CNC Interface Module


-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.

### TECHNICAL DATA

|                               |                                  |
|-------------------------------|----------------------------------|
| Relay on Indication           | 3mm Red LED                      |
| Relay Protection Method       | Using 1N4007 Free Wheeling Diode |
| Ambient Operating Temperature | -20 to +50 °C                    |
| Mounting Possibility          | DIN32 / DIN35 / DIN35-15 / PANEL |
| Housing Material              | PVC / V0 Grade                   |
| Housing Colour                | Green                            |

### IDC / FRC CONNECTOR SPECIFICATIONS

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Contact Material                | Brass                                                                               |
| Rated Current / Pin             | 2 A                                                                                 |
| Contact Resistance              | 30m ohms maximum                                                                    |
| Dielectric Withstanding Voltage | 500VAC for 1 minute                                                                 |
| Insulation Resistance           | 3000M ohms minimum                                                                  |
| IDC / FRC Connector Approvals   |  |

### RELAY INPUT / COIL SPECIFICATIONS

|                           |          |
|---------------------------|----------|
| Nominal Operating Voltage | 24 VDC   |
| Nominal Input Current     | 21.8 mA  |
| Maximum Operating Voltage | 26.4 VDC |
| Must Operate Voltage      | 16.8 VDC |
| Must Release Voltage      | 3.6 VDC  |
| Coil Resistance           | 1100 Ω   |

### RELAY OUTPUT/CONTACT SPECIFICATIONS

|                             |                   |
|-----------------------------|-------------------|
| Contact Type                | 1 CO              |
| Contact Material            | AgCdO             |
| Load Voltage Range          | 380 VAC / 125 VDC |
| Maximum Operating Frequency | 1800 Opr./Hr      |

### CONNECTION SPECIFICATIONS

|                       |                     |
|-----------------------|---------------------|
| Type of Connection    | Screw Connection    |
| Min. Wire Size        | 0.5 mm <sup>2</sup> |
| Max. Wire Size        | 2.5 mm <sup>2</sup> |
| Min. Wire Size(AWG)   | 30 AWG              |
| Max. Wire Size(AWG)   | 14 AWG              |
| Wire Stripping Length | 8.3 mm              |






### CONNECTION SPECIFICATIONS

|        |           |
|--------|-----------|
| Torque | 0.5 Nm    |
| Torque | 4.5 lb-in |

### ORDERING INFORMATION

| CAT. NO.      | DESCRIPTION                                                                                             | NO. OF CHN. | DIM. DET.     | STD. PACK |
|---------------|---------------------------------------------------------------------------------------------------------|-------------|---------------|-----------|
| IMRE1SS16/CNC | 1CO 16CH 24VDC Relay Board for ease of PLC Wiring in CNC Machine With Base (Pluggable Relay) Rail Mount | 16          | 316 X 88 X 65 | 1         |
| IMRE1S16/CNC  | 16CH 24VDC Board for Ease OF PLC Wiring in CNC Machine With Soldered Relay Rail Mount                   | 16          | 316 X 88 X 65 | 1         |

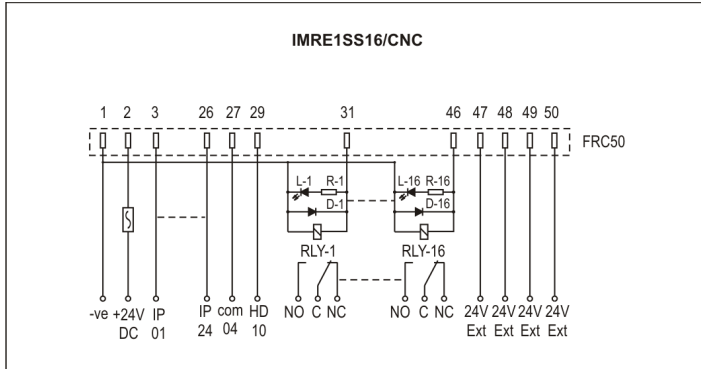
### ACCESSORIES

| IMAGES                                                                              | CAT. NO.      | DESCRIPTION                                                                                                                                                                                        | STD. PACK |
|-------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|  | CA501-1M      | Din 32 Rail unslotted 1 meter                                                                                                                                                                      | 50        |
|                                                                                     | CA501-1M-S    | Din 32 Rail slotted 1 meter                                                                                                                                                                        | 50        |
|                                                                                     | CA501-2M      | Din 32 Rail unslotted 2 meter                                                                                                                                                                      | 50        |
|                                                                                     | CA501-2M-S    | Din 32 Rail slotted 2 meter                                                                                                                                                                        | 50        |
|  | 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        |
|  | CA509/K2      | Marking Tag Blank suitable for CDL4U / CDL4U(I.S) / CTL2.5U / CTL2.5UH / CTL2.5UL / CTL2.5HUL / CTL2.5U(I.S) / CTL2.5U(I.S)D2 / CGMT4 / CSFL4U / CSFL4U(L) / CMT4 / CMB4 / ASF4 / ASF4(L) / CTS2.5 | 100       |
|  | SCS0.5/3      | Electricians Screwdriver for slotted screws                                                                                                                                                        | 10        |

# IMRE1SS16/C NC



## CIRCUIT DIAGRAM



## NOTES

- \* 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.
- \*\*\* FRC Cable Available on request. #Module with Other Coil Voltage like 6 VDC, 48 VDC, 24 VAC etc. are available on request.