

**IMRE1SS16/CNC**



**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.

**GENERAL SPECIFICATION**

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

**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
Torque	0.5 Nm
Torque	4.5 lb-in

**IDC / FRC CONNECTOR SPECIFICATIONS**

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

**RELAY GENERAL SPECIFICATIONS**

Relay Approvals	UL, CSA, VDE, KEMA KEUR, CE
Relay Make / Manufacturer	OMRON / G2R-1
Relay Type	SPDT

**RELAY INPUT / COIL SPECIFICATIONS**

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

**RELAY OUTPUT/CONTACT SPECIFICATIONS**

Contact Type	1 CO
Contact Material	AgCdO
Rated Current at 230 VAC	10 A
Rated Current at 30 VDC	10 A
Load Voltage Range	380 VAC / 125 VDC
Maximum Operating Frequency	1800 Opr./Hr
Life Expectancy - Mechanical	20,000,000 operations min.
Life Expectancy Electrical	100,000 operations min.

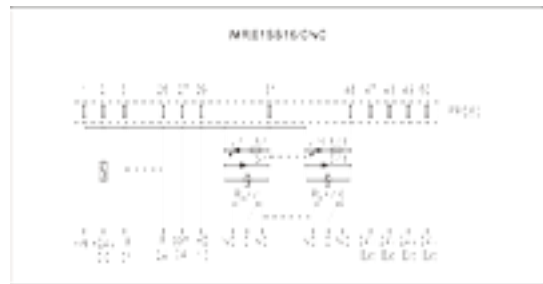
**ORDERING INFORMATION**

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	1	316 X 88 X 65	16
IMRE1S16/CNC	16CH 24VDC Board for Ease OF PLC Wiring in CNC Machine With Soldered Relay Rail Mount	1	316 X 88 X 65	16

**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
	IMACC/G2R1/24DC	RELAY 1CO 24VDC	10

**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.

**IMRE1SSF16/CNC**



**16 I/O CNC Interface Module with Output Fuse Protection**

-IMRE1SSF16/CNC and IMRE1SSF16/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.

**GENERAL SPECIFICATION**

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

**FUSE SPECIFICATIONS**

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

**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
Torque	0.5 Nm
Torque	4.5 lb-in

**IDC / FRC CONNECTOR SPECIFICATIONS**

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

IDC / FRC Connector Approvals	
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**RELAY GENERAL SPECIFICATIONS**

Relay Approvals	UL, CSA, VDE, KEMA KEUR, CE
Relay Make / Manufacturer	OMRON / G2R-1
Relay Type	SPDT

**RELAY INPUT / COIL SPECIFICATIONS**

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

**RELAY OUTPUT/CONTACT SPECIFICATIONS**

Contact Type	1 CO
Contact Material	AgCdO
Rated Current at 230 VAC	10 A
Rated Current at 30 VDC	10 A
Load Voltage Range	380 VAC / 125 VDC
Maximum Operating Frequency	1800 Opr./Hr
Life Expectancy - Mechanical	20,000,000 operations min.
Life Expectancy Electrical	100,000 operations min.

**FUSE HOLDER SPECIFICATIONS**

Cap Design	Flat
Fuse Size	5 x 20 mm
Mounting type	Horizontal
Rated Current	6,3 A

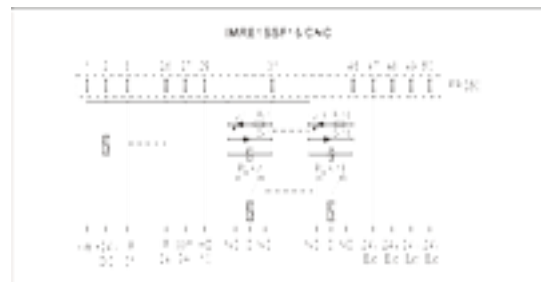
**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
IMRE1SSF16/CNC	1CO 16CH 24VDC Output Fuse protection Relay Board for ease PLC Wiring in CNC Machine With Base (Pluggable Relay) Rail Mount	1	316 X 120 X 65	16
IMRE1SF16/CNC	1CO 16CH 24VDC Output Fuse protection Relay Board for ease OF PLC Wiring in CNC Machine With Soldered Relay Rail Mount	1	316 X 120 X 65	16

**ACCESSORIES**

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	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
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	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
	IMACC/G2R1/24DC	RELAY 1CO 24VDC	10

**CIRCUIT DIAGRAM**



**NOTES**

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**IMRE1SS16/CNCSSRx**



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Housing Colour	Green
Housing Material	PVC / V0 Grade
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Relay on Indication	3mm Red LED
Relay Protection Method	Using 1N4007 Free Wheeling Diode
Supply Voltage Indication	3mm Green LED

**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
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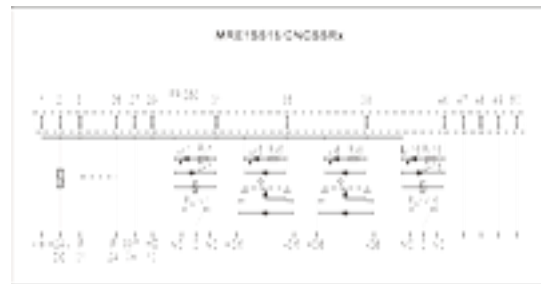
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CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
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## X-no. of SSR