

DYNASERVO

Reliable, Affordable and High Performance



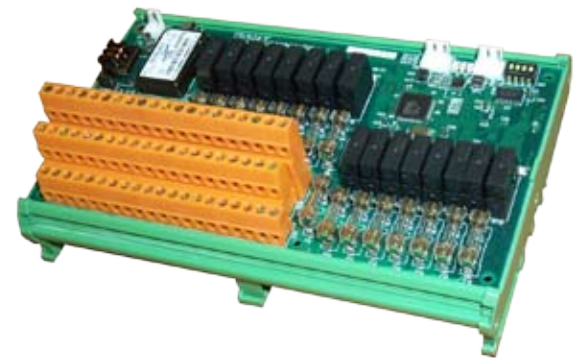
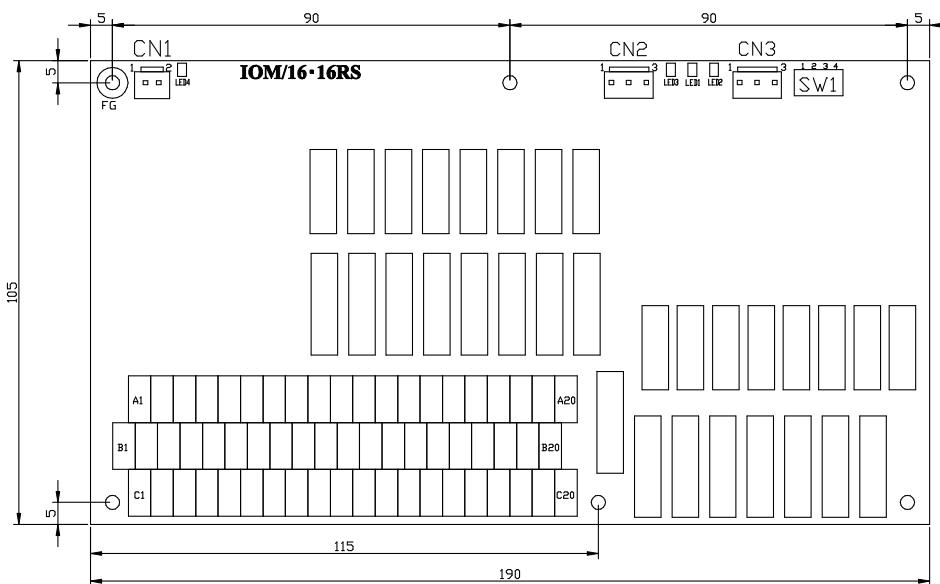
Fics-IOM/16.16RS2

Serial Network I/O Module with Screw Terminal Block

Fics-IOM/16.16RS2 is a DIN-RAIL mount type serial network module with screw terminal block for I/O expansion of Fics serial controllers. It integrates 16 opto-isolated DI and 16 fused relay DO. The communication with Fics serial controllers is achieved by a serial link that transfers data via standard RS422 at rates up to 1.25Mbps. The DI is NPN/PNP selectable.

Features:

- High speed RS422 communication with *Fics*-serial controller at 1.25Mbps
- Max. 16 modules and 256DI/256DO connected in one serial network
- DIN-RAIL mount housing
- LED indicators for I/O status
- 16 opto-isolated, NPN/PNP selectable inputs
- 16 fused relay outputs (2A fuse)
- Easy-to-use screw terminal block
- Minimum wiring and high reliability



Fics-IOM/16.16RS2

Electrical Inputs

- **Number of inputs:** 16
- **Input circuit:** opto-isolated
- **Input voltage:** 0V ~ power voltage+0.5V
- **Max input current:** -10mA/input
- **Min input current:** -2mA/input
- **Input indicator:** 1 LED/input, ON when photo-coupler ON

Electrical Outputs

- **Number of outputs:** 16
- **Output circuit:** fused relays
- **Output indicator:** 1 LED/output, ON when photo-coupler ON

Communication Interface: RS422

- **Speed:** 1.25Mbps
- **Protocol:** IO-Ring
- **Address setting:** 4 bits DIP switch (SW1)
- **Status indicator:** Green LEDx2 - sending & receiving
Red LEDx1 - error
- **Max cable length:** 40m (with more than 0.5mm² shielded twisted cable)

Electrical Specifications

- **Power supply:** 24V±10%

Working Environment

- 0C~40C/35~85%RH (free from dew)

Switches, Jumpers

SW1: Module Address Setting (0 Means ON)

1	bit0
2	bit1
3	bit2
4	bit3

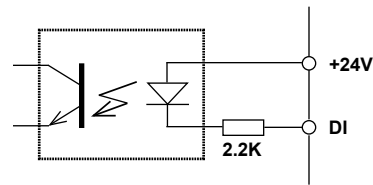
JP2: NPN/PNP Selection Jumper

1-2	NPN (+24V Common)
2-3	PNP (0V Common)

LED

- LED 1 (Red): IO-Ring Disconnected
- LED 2 (Green): Data Sending
- LED 3 (Green): Data Receiving
- LED 4 (Green): Power
- LED 10~17, 20~27(Red): DI Monitoring
- LED 30~37, 40~47(Red): DO Monitoring

Input Interface Circuit



Power Supply

CN1: B2P-VH(JST)

1	+24V
2	0V

IO-Ring Input

CN2: B3P-VH(JST)

1	RD+
2	RD-
3	GND

IO-Ring Output

CN3: B3P-VH(JST)

1	SD+
2	SD-
3	GND

Terminal Block Assignments (TB1)

	A	B	C
1	DI-0	DI8	0V
2	DI-1	DI9	0V
3	DI-2	DI10	0V
4	DI-3	DI11	0V
5	DI-4	DI12	+24V
6	DI-5	DI13	+24V
7	DI-6	DI14	+24V
8	DI7	DI15	+24V
9	DO0	DO6	DO12
10	DO0	DO6	DO12
11	DO1	DO7	DO13
12	DO1	DO7	DO13
13	DO2	DO8	DO14
14	DO2	DO8	DO14
15	DO3	DO9	DO15
16	DO3	DO9	DO15
17	DO4	DO10	nc
18	DO4	DO10	nc
19	DO5	DO11	nc
20	DO5	DO11	nc