

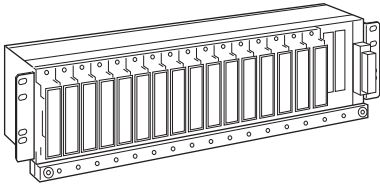
## Rack-mounted DCS Signal Conditioners 18-RACK

### STANDARD RACK

(with grounding bar)

#### Functions & Features

- Standard 19" rack for 18-RACK signal conditioners
- Line power supplied via the rear rack bus
- Grounding bar
- Direct interface to various DCS with the rack connector



### MODEL: 18BXCS-1[1]

### ORDERING INFORMATION

- Code number: 18BXCS-1[1]

Specify a code from below for [1].

(e.g. 18BXCS-1Y3)

### FUNCTION

1: Power distribution & grounding

### [1] CONNECTOR

U1: Fujitsu FCN type I/O connector

Y1: Yokogawa DCS VMx / PM1 card use

Y3: Yokogawa DCS MAC2 / PAC card use

We guarantee the connecting section.

### RELATED PRODUCTS

- Blank filler plate (model: P-181)
- Connector terminal block (model: CNT)
- Special cable with 40-pin connector (model: FCN)

### GENERAL SPECIFICATIONS

**Construction:** Metal plates assembly

**Coating:** Colored Zn-Cr

**Capacity:** 16 positions

**Connection**

**Power input:** M4 screw terminals (torque 0.8 N·m)

**Ground:** M3.5 screw terminals (torque 0.8 N·m)

**Shield:** M3.5 screw terminals (torque 0.8 N·m)

**Screw terminal**

- **Power input:** Nickel-plated brass

- **Ground:** Chromated steel

- **Shield:** Chromated steel

### INSTALLATION

**Power input**

- **DC:** Operating voltage range 24 V DC  $\pm 10\%$ , 2.5 A minimum (ripple 10 % p-p max.)

**Operating temperature:** -5 to +55°C (23 to 131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Mounting:** JIS or EIA standard rack

**Weight:** 3 kg (6.61 lb)

### PERFORMANCE

**Insulation resistance:**  $\geq 100\text{ M}\Omega$  with 500 V DC

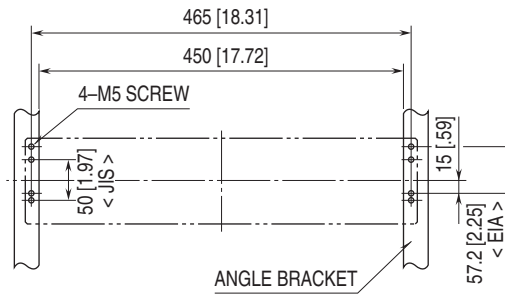
(I/O connector to power to FG)

**Dielectric strength:**

500 V AC @ 1 minute (I/O connector to power)

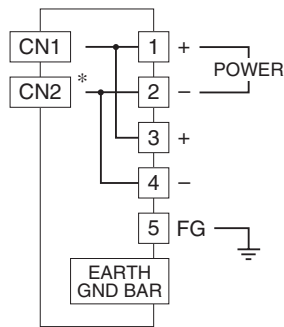
1000 V AC @ 1 minute (I/O connector or power to FG)

## MOUNTING REQUIREMENTS



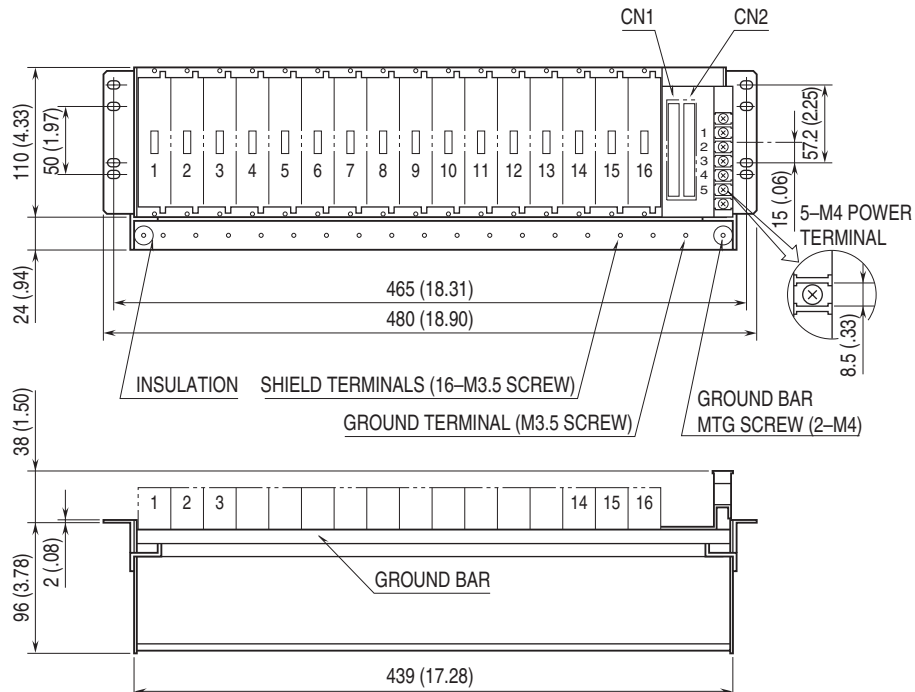
Observe appropriate wiring space over and under the rack.

## CONNECTION DIAGRAM



- \* CN2 is connectable only with:
  - Fujitsu FCN type I/O connector
  - Yokogawa DCS MAC2 / PAC card use

## DIMENSIONS unit: mm (inch)



## I/O CONNECTOR PIN ASSIGNMENT

### •Fujitsu FCN type I/O connector

(OTAX N365P040AU  
(Fujitsu FCN-365P040-AU...discontinued))

#### Connector Pin Assignment

**CN1:** output 1 or input

**CN2:** output 2

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
A 1	ch. 1 +	B 1	ch. 1 -
A 2	ch. 2 +	B 2	ch. 2 -
A 3	ch. 3 +	B 3	ch. 3 -
A 4	ch. 4 +	B 4	ch. 4 -
A 5	ch. 5 +	B 5	ch. 5 -
A 6	ch. 6 +	B 6	ch. 6 -
A 7	ch. 7 +	B 7	ch. 7 -
A 8	ch. 8 +	B 8	ch. 8 -
A 9	ch. 9 +	B 9	ch. 9 -
A10	ch.10 +	B10	ch.10 -
A11	ch.11 +	B11	ch.11 -
A12	ch.12 +	B12	ch.12 -
A13	ch.13 +	B13	ch.13 -
A14	ch.14 +	B14	ch.14 -
A15	ch.15 +	B15	ch.15 -
A16	ch.16 +	B16	ch.16 -

A17 - A20, B17 - B20: Unused

Pin assignment is common to both CN1 and CN2.

### •Yokogawa DCS MAC2 / PAC card use

(PS-40PE-D4LT1-PN1)

#### Location

**CN1:** MAC2 / PAC card use\*

**CN2:** MAC2 / PAC card use\* (for redundancy)

The input or output 1 is connected to the connector.

18-RACK LOCATION NO.															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
i	o	i	o	i	o	i	o	i	o	i	o	i	o	i	o
MAC2/PAC CARD I/O (i = input, o = output)															

\*MAC2 card (uses KS1 cable)

I/O card used for control I/O. Composed of 8 inputs and 8 outputs. Input and output are paired. (Replace with pulse inputs for PAC card.)

Specifications subject to change without notice.

### •Yokogawa DCS VM □ / PM1 card use

(PS-40PE-D4LT1-PN1)

#### Location

**CN1:** VM□ / PM1 card use\*

The input or output 1 is connected to the connector.

18-RACK LOCATION NO.															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VM1/PM1/VM4 CARD INPUT or OUTPUT															
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
VM2 CARD INPUT NO.								VM2 CARD OUTPUT NO.							

\*VM□ / PM1 card (uses KS2 cable)

VM1: analog input 16 points

VM2: analog input 8 points / analog output 8 points

VM4: analog output 16 points

PM1: pulse input 16 points



Specifications are subject to change without notice.