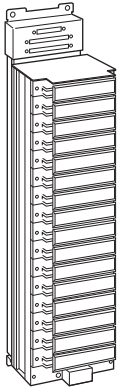


## Rack-mounted DCS Signal Conditioners 18-RACK

### STANDARD RACK

#### Functions & Features

- Vertical rack for 18-RACK signal conditioners
- Line power supplied via the rear rack bus
- Direct interface to various DCS with the rack connector



### MODEL: 18BX-[1]

#### ORDERING INFORMATION

- Code number: 18BX-[1]

Specify a code from below for [1].

(e.g. 18BX-ENC)

#### [1] CONNECTOR

**FCN:** Fujitsu FCN type I/O connector

**ENC:** Yokogawa DCS VM type card use

**ENM:** Yokogawa DCS MAC2 type 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; power terminal cover provided

**Coating:** Colored Zn-Cr

**Capacity:** 16 positions

**Connection**

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

(For 18BX-ENC and 18BX-ENM, power plug attached to power input terminals.)

**Screw terminal:** Nickel-plated brass

#### INSTALLATION

**Power input**

- DC: 24 V DC  $\pm 10\%$ , (ripple 10 % p-p max.)

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

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

**Mounting:** Angle bracket

**Weight:** 2 kg (4.4 lb)

#### PERFORMANCE

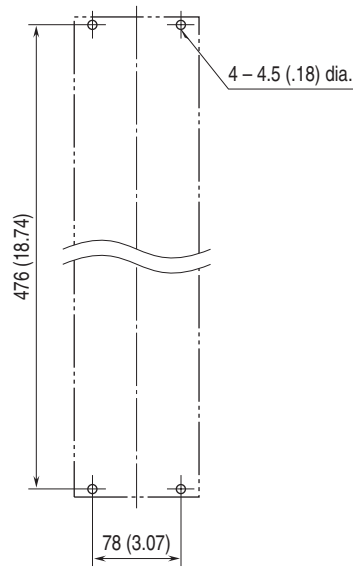
**Insulation resistance:**  $\geq 100\text{ M}\Omega$  with 500 V DC

(I/O connector to power to FG)

**Dielectric strength:** 500 V AC @ 1 minute

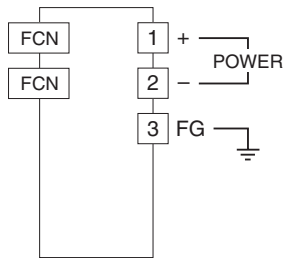
(I/O connector to power to FG)

**MOUNTING REQUIREMENTS**

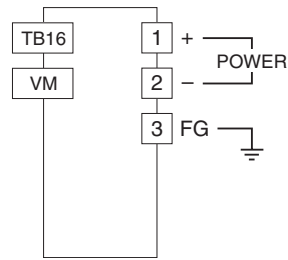


**CONNECTION DIAGRAM**

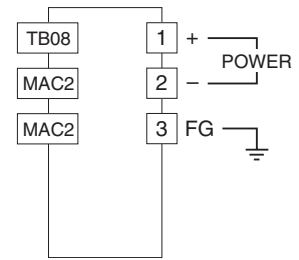
■ FCN CONNECTOR



■ VM CONNECTOR

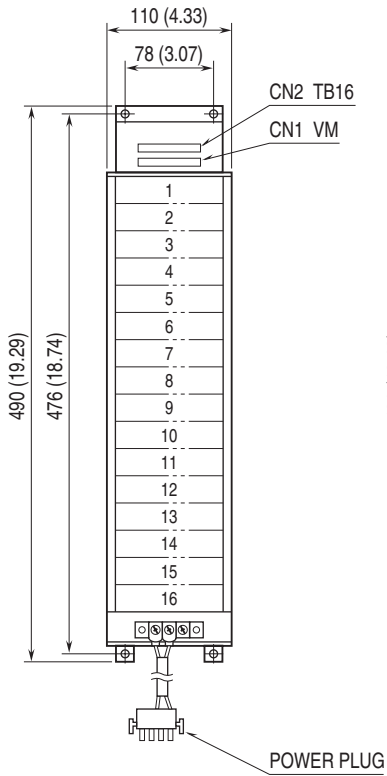


■ MAC2 CONNECTOR

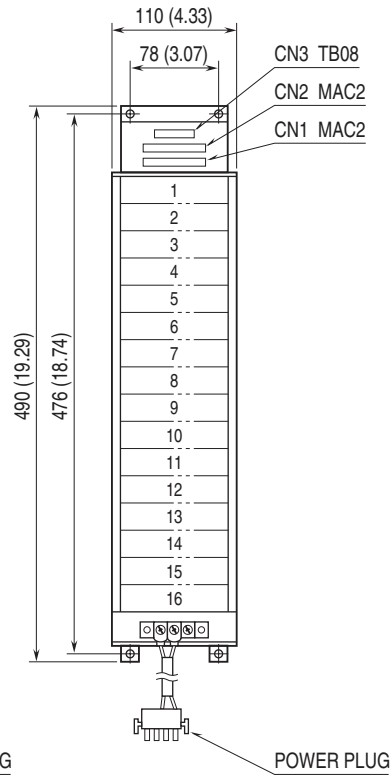


## DIMENSIONS unit: mm (inch)

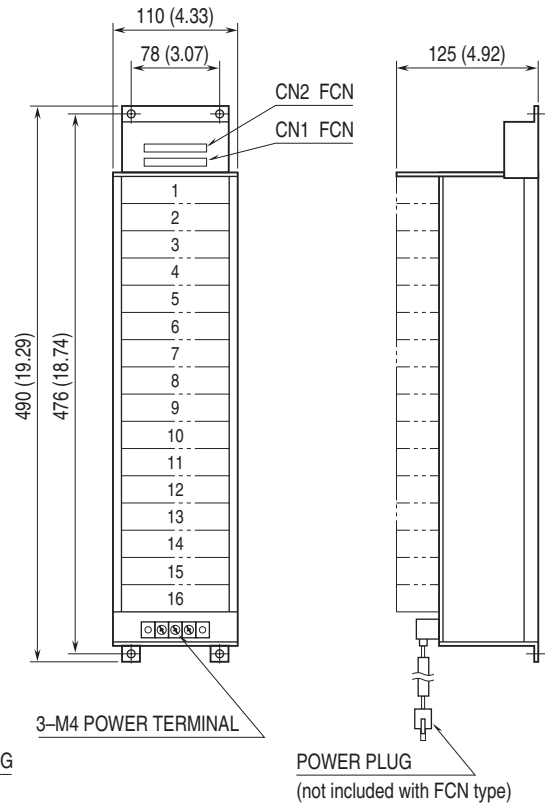
### ■ VM CONNECTOR



### ■ MAC2 CONNECTOR



### ■ FCN CONNECTOR



**I/O CONNECTOR PIN ASSIGNMENT**

- **Fujitsu FCN type I/O connector**  
 (OTAX N364P040AU)  
 (Fujitsu FCN-364P040-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 connector**  
 (PS-40PE-D4T1-PN1)

**Location**

**CN1:** VM card use (output 1 or input)

**CN2:** TB16 connector (output 2)

18-RACK LOCATION NO.															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VM1/VM4 CARD INPUT or OUTPUT CN1															
1 2 3 4 5 6 7 8 VM2 CARD INPUT NO. CN1								1 2 3 4 5 6 7 8 VM2 CARD OUTPUT NO. CN1							
TB16 CARD POINT NO. CN2															

- **Yokogawa DCS connector**  
 (MAC2 use: PS-40PE-D4T1-PN1)  
 (TB08 use: PS-20PE-D4T1-PN1)

**Location**

**CN1, CN2:** MAC2 card use (output 1 or input)

**CN3:** TB08 connector (output 2)

18-RACK LOCATION NO.															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MAC2 CARD I/O (i = input, o = output) CN1, CN2															
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															
TB08 CARD POINT NO. CN3															



Specifications are subject to change without notice.