

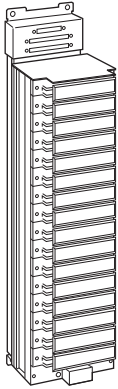
Rack-mounted DCS Signal Conditioners 18-RACK

STANDARD RACK

(pressure supply)

Functions & Features

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



MODEL: 18BXA-[1]

ORDERING INFORMATION

- Code number: 18BXA-[1]

Specify a code from below for [1]

(e.g. 18BXA-ENC)

[1] CONNECTOR

FCN: Fujitsu FCN type I/O connector

ENC: Yokogawa DCS VM type card use

ENM: Yokogawa DCS MAC2 type card use

M-System guarantees 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 18BXA-ENC and 18BXA-ENM, power plug attached to

power input terminals.)

Pneumatic: Rc 3/8" female (torque ≤ 12 N·m)

Screw terminal: Nickel-plated brass

Manifold: Aluminium alloy

INSTALLATION

Power input

- **DC:** 24 V DC ± 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: 3 kg (6.61 lbs)

PERFORMANCE

Insulation resistance: ≥ 100 M Ω with 500 V DC

(I/O connector to power to FG)

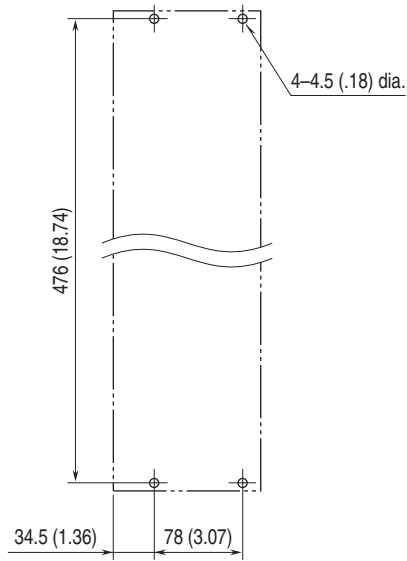
Dielectric strength: 500 V AC @ 1 minute

(I/O connector to power to FG)

Maximum supply pressure: 196 kPa

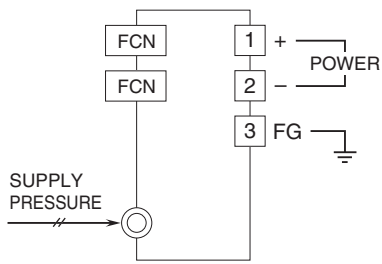
(2 kgf/cm², 1.96 bar, 28 psig)

MOUNTING REQUIREMENTS

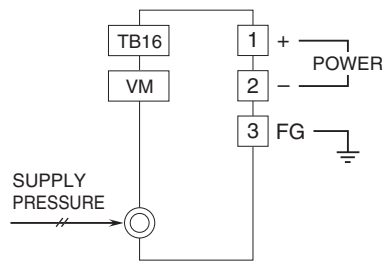


CONNECTION DIAGRAM

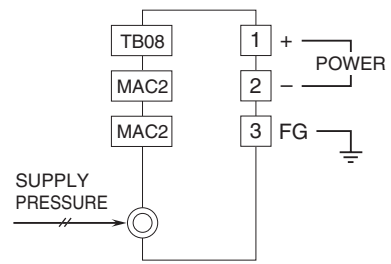
■ FCN



■ VM

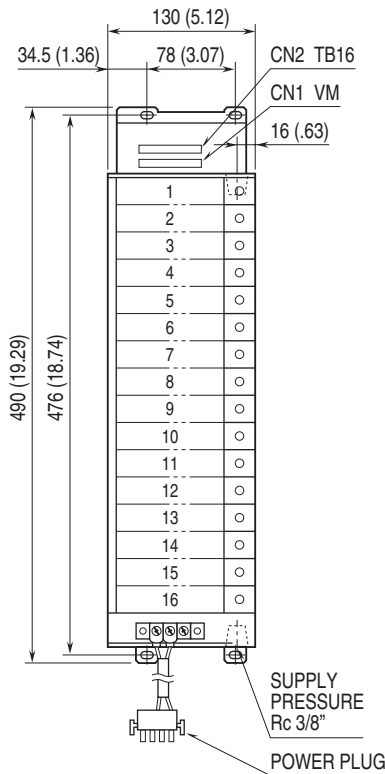


■ MAC2

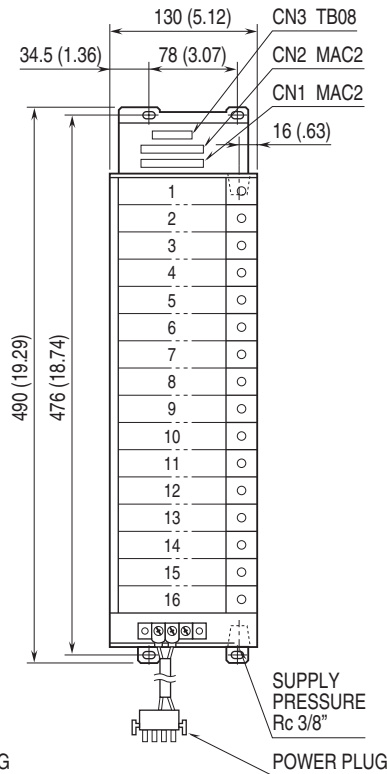


DIMENSIONS unit: mm (inch)

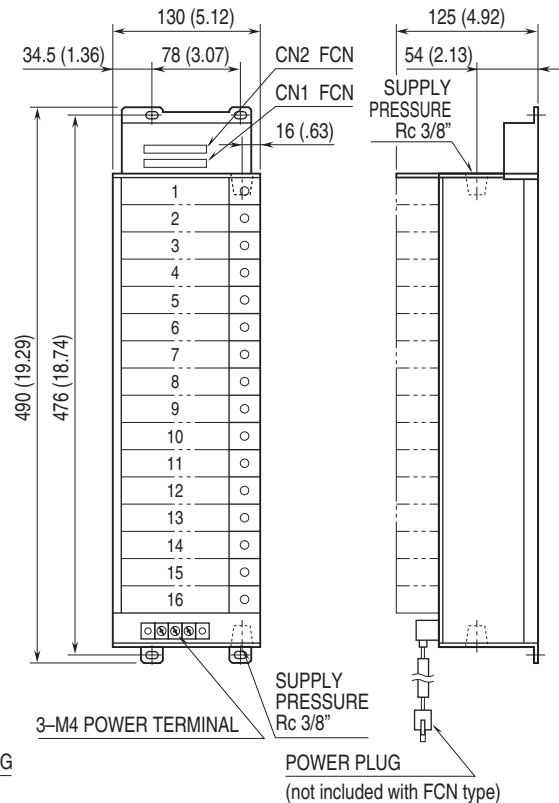
VM CONNECTOR



MAC2 CONNECTOR



FCN CONNECTOR



I/O CONNECTOR PIN ASSIGNMENT

Fujitsu FCN type I/O connector

(Fujitsu FCN-364P040-AU)

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															
VM2 CARD INPUT NO. CN1								VM2 CARD OUTPUT NO. CN1							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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
1	1	2	2	3	3	4	4
i	o	i	o	i	o	i	o
MAC2 CARD I/O (i = input, o = output) CN1, CN2							
1	2	3	4	5	6	7	8
TB08 CARD POINT NO. CN3							



Specifications are subject to change without notice.