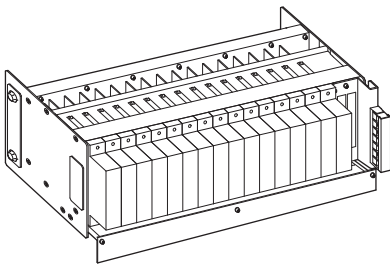


Rack-mounted DCS Signal Conditioners 18K-RACK

STANDARD RACK

Functions & Features

- Housing for storage of Rack-mounted DCS Signal Conditioners 18K-RACK
- Integrated rack and field connectors allow for signal conditioners to be removed without touching the terminal screws, making field wiring insulation tests possible
- Can also be used for 18-RACK storage
- Signal conditioner power supply is for all 16 units
- Connectors are available for direct connection to Yokogawa Electric DCS units



MODEL: 18KBXW-[1]

ORDERING INFORMATION

- Code number: 18KBXW-[1]
- Specify a code from below for [1].
(e.g. 18KBXW-Y1)

[1] CONNECTOR

- Y1: Yokogawa DCS MAC2 / PAC card use
Y2: Yokogawa DCS VMx / PM1 card use

RELATED PRODUCTS

- Blank filler plate (model: P-181)

GENERAL SPECIFICATIONS

Construction: Metal plates assembly

Coating: Colored Zn-Cr

Capacity: 16 positions

Connection

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

Field connector: Japan Solderless Terminal MFG.Co.Ltd
B04B-XASK-1-A

Screw terminal: Nickel-plated brass

Isolation: I/O connector to field connector to power to FG

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: Mount to module inserts of Yokogawa Electric racks (models: CNC, CNM) (perforation required)

Weight: Approx. 2.5 kg (5.51 lb)

PERFORMANCE

Insulation resistance: ≥ 100 M Ω with 500 V DC

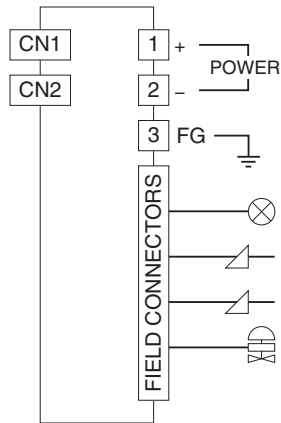
Dielectric strength: 500 V AC @1 minute

(I/O connector to field connector to power)

1000 V AC @1 minute

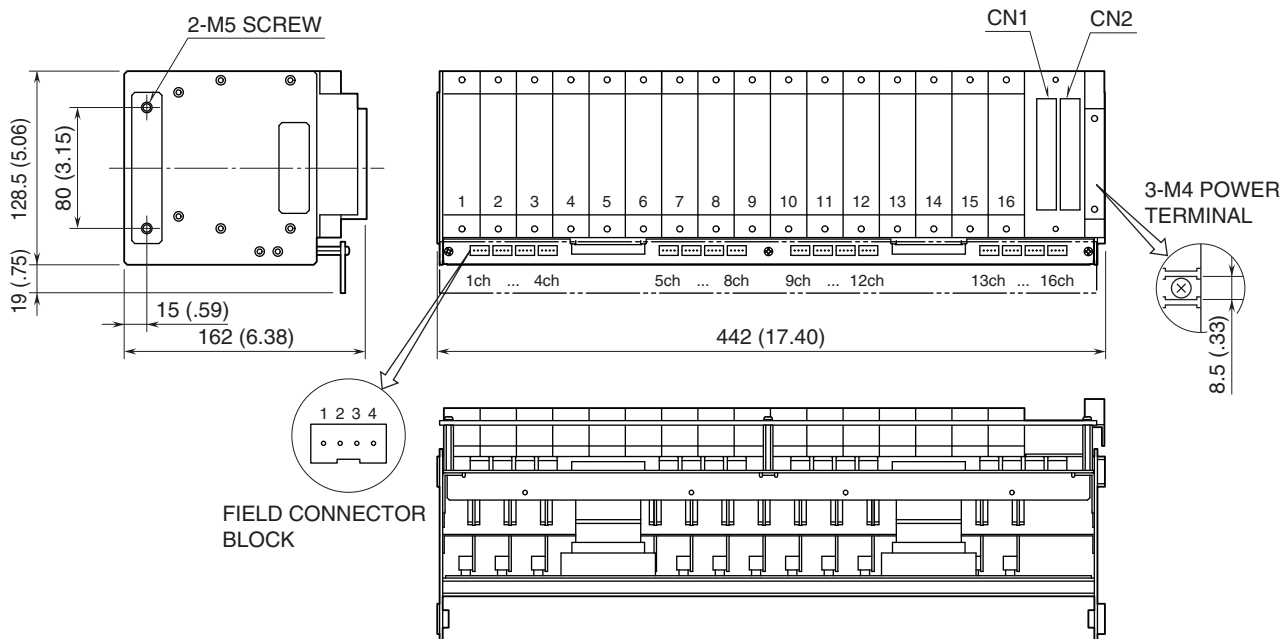
(I/O connector or field connector or power to FG)

CONNECTION DIAGRAM



- Note 1. For 18KTS and 18KJT models, directly connect input signals to input terminals of the converter and do not connect to Field Connectors.
- Note 2. Field Connector numbers correspond to Terminal numbers of the converters.
- Note 3. CN2 is provided only for Yokogawa DCS MAC2 /PAC card use.

DIMENSIONS unit: mm (inch)



I/O CONNECTOR PIN ASSIGNMENT

• **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.

18K-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.)

• **Yokogawa DCS VMx / PM1 card use**
(PS-40PE-D4LT1-PN1)

Location

CN1: VMx / PM1 card use*

The input or output 1 is connected to the connector.

18K-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.							

*VMx / 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.