

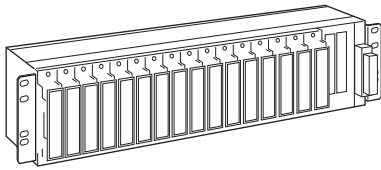
Rack-mounted DCS Signal Conditioners 18-RACK

STANDARD RACK

(pressure supply)

Functions & Features

- Standard 19" rack for 18-RACK signal conditioners
- Line power access at the terminal card, supplied via the rear rack bus
- Supply pressure at manifold plug
- Direct interface to various DCS with the rack side connector



MODEL: 18BXCA-1[1][2]

ORDERING INFORMATION

- Code number: 18BXCA-1[1][2]
- Specify a code from below for each of [1] and [2].
(e.g. 18BXCA-11/W)

[1] CONNECTOR

- 1: Fujitsu FCN type I/O connector
- 2: Yokogawa VMx / PM1 card use
- 3: Yokogawa MAC2 / PAC card use
- H1: Hitachi DCS EX connector
- H2: Hitachi DCS EX-CDL cable connector
- E5: Toshiba DCS VAIMX1 card use
- E6: Toshiba DCS VAOPX1 card use
- K2: Yamatake DCS AO connector

We guarantee the connecting section.

[2] OPTIONS

Mounting Bracket

blank: Rack mounting, standard

/W: Surface mounting

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)

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

Screw terminal: Nickel-plated brass

Manifold: Aluminium alloy

INSTALLATION

Supply pressure: Refer to the data sheet for I/P transducers

Power input

- **DC:** Operating voltage range 24 V DC ±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 or surface

Weight: 3 kg (6.61 lb)

PERFORMANCE

Insulation resistance: ≥ 100 MΩ 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)

Maximum supply pressure: 196 kPa

(2 kgf/cm², 1.96 bar, 28 psig)

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 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
VM1/PM1/VM4 CARD INPUT or OUTPUT															
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

•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.

•Hitachi DCS EX connector (DN10-36S)

Connector Pin Assignment

CN1: output 1

CN2: output 2

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1 +	9	ch. 9 +
19	ch. 1 -	27	ch. 9 -
2	ch. 2 +	10	ch.10 +
20	ch. 2 -	28	ch.10 -
3	ch. 3 +	11	ch.11 +
21	ch. 3 -	29	ch.11 -
4	ch. 4 +	12	ch.12 +
22	ch. 4 -	30	ch.12 -
5	ch. 5 +	13	ch.13 +
23	ch. 5 -	31	ch.13 -
6	ch. 6 +	14	ch.14 +
24	ch. 6 -	32	ch.14 -
7	ch. 7 +	15	ch.15 +
25	ch. 7 -	33	ch.15 -
8	ch. 8 +	16	ch.16 +
26	ch. 8 -	34	ch.16 -

Pin assignment is common to both CN1 and CN2.

• **Hitachi DCS EX-CDL cable connector**
(57LE-40360-7700 [D34])

Connector Pin Assignment

CN1: output 1

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1 +	9	ch. 9 +
19	ch. 1 -	27	ch. 9 -
2	ch. 2 +	10	ch.10 +
20	ch. 2 -	28	ch.10 -
3	ch. 3 +	11	ch.11 +
21	ch. 3 -	29	ch.11 -
4	ch. 4 +	12	ch.12 +
22	ch. 4 -	30	ch.12 -
5	ch. 5 +	13	ch.13 +
23	ch. 5 -	31	ch.13 -
6	ch. 6 +	14	ch.14 +
24	ch. 6 -	32	ch.14 -
7	ch. 7 +	15	ch.15 +
25	ch. 7 -	33	ch.15 -
8	ch. 8 +	16	ch.16 +
26	ch. 8 -	34	ch.16 -

• **Yamatake DCS AO connector**

Location

Output connector: 57LE-40500-7300

CN1: AO use

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
YAMATAKE DCS AO CARD (J-AOM10) OUTPUT															

• **Toshiba DCS VAIMX1 card use (57LE-40360-7700)**

Connector Pin Assignment

CN1: output 1

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1 +	9	ch. 9 +
19	ch. 1 -	27	ch. 9 -
2	ch. 2 +	10	ch.10 +
20	ch. 2 -	28	ch.10 -
3	ch. 3 +	11	ch.11 +
21	ch. 3 -	29	ch.11 -
4	ch. 4 +	12	ch.12 +
22	ch. 4 -	30	ch.12 -
5	ch. 5 +	13	ch.13 +
23	ch. 5 -	31	ch.13 -
6	ch. 6 +	14	ch.14 +
24	ch. 6 -	32	ch.14 -
7	ch. 7 +	15	ch.15 +
25	ch. 7 -	33	ch.15 -
8	ch. 8 +	16	ch.16 +
26	ch. 8 -	34	ch.16 -

• **Toshiba DCS VAOPX1 card use**

(57LE-40360-7700)

Connector Pin Assignment

CN1, CN2: input

CN1 PIN NO.	ASSIGNMENT	CN2 PIN NO.	ASSIGNMENT
1	ch. 1 +	1	ch. 9 +
19	ch. 1 -	19	ch. 9 -
3	ch. 2 +	3	ch.10 +
21	ch. 2 -	21	ch.10 -
5	ch. 3 +	5	ch.11 +
23	ch. 3 -	23	ch.11 -
7	ch. 4 +	7	ch.12 +
25	ch. 4 -	25	ch.12 -
9	ch. 5 +	9	ch.13 +
27	ch. 5 -	27	ch.13 -
11	ch. 6 +	11	ch.14 +
29	ch. 6 -	29	ch.14 -
13	ch. 7 +	13	ch.15 +
31	ch. 7 -	31	ch.15 -
15	ch. 8 +	15	ch.16 +
33	ch. 8 -	33	ch.16 -



Specifications are subject to change without notice.