

DCS Input/Output Relay Card Series

STANDARD RACK

Functions & Features

- The Standard Rack (Nest) model 38N can accept at the maximum of 16 channels of inputs and outputs

PERFORMANCE

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

Dielectric strength: 1000V AC @1 minute (I/O connector to alarm output to power for voltage output to power supply to metal frame)

MODEL: 38N-B[1][2]

ORDERING INFORMATION

- Code number: 38N-B[1][2]

Specify a code from below for each of [1] and [2].

(e.g. 38N-BH1/W)

[1] CONNECTOR

H1: Hitachi DCS connector

Y1: Yokogawa KS2 cable use connector

We guarantee the connecting section.

[2] OPTIONS

Mounting Bracket

blank: Rack mounting, standard

/W: Surface mounting

GENERAL SPECIFICATIONS

Construction: Metal plates assembly

Coating: Black Zn-Cr

Capacity: 16 positions

Connection

Power input: M3.5 screw terminals (torque 0.8 N·m; one for all 16 channels)

Alarm output: M3.5 screw terminals (torque 0.8 N·m; one for all 16 channels)

DCS I/O: Connector

Screw terminal: Nickel-plated brass

Isolation: I/O connector to alarm output to power for voltage output to power supply to metal frame

INSTALLATION

Power input

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

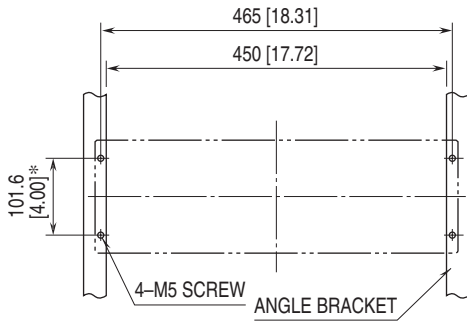
Operating temperature: -5 to +55°C (23 to 131°F)

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

Mounting: JIS or EIA standard rack or surface

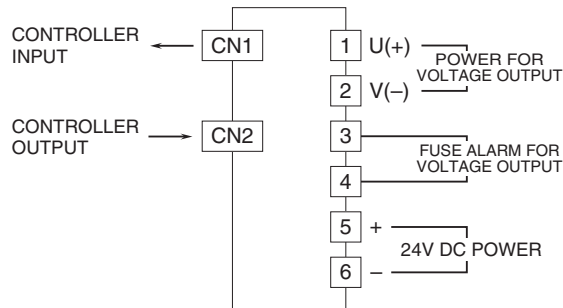
Weight: Approx. 2.5 kg (5.51 lb)

MOUNTING REQUIREMENTS unit: mm [inch]



Observe an appropriate wiring space over and below.
*100 [3.94] for JIS standard

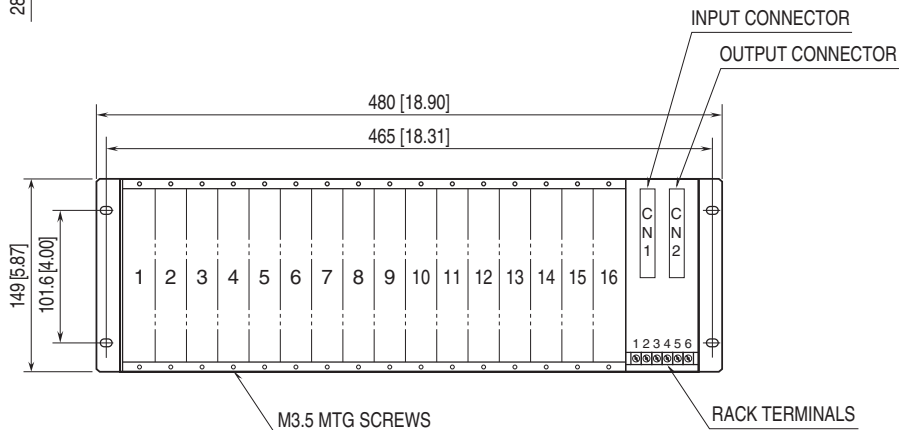
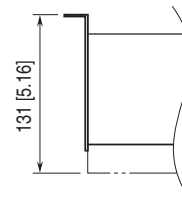
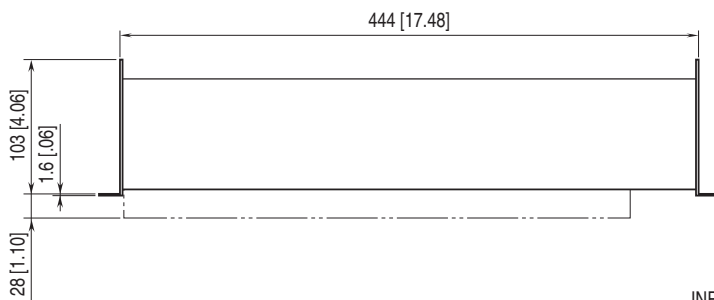
CONNECTION DIAGRAM



EXTERNAL DIMENSIONS unit: mm [inch]

■ RACK (standard)

■ SURFACE (option /W)



I/O CONNECTOR PIN ASSIGNMENT**■ Hitachi DCS connector**

Amphenol 57, 36-pin

•Connector Pin Assignments**CN1:** input**CN2:** output

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1 +	9	ch. 9 +
2	ch. 2 +	10	ch.10 +
3	ch. 3 +	11	ch.11 +
4	ch. 4 +	12	ch.12 +
5	ch. 5 +	13	ch.13 +
6	ch. 6 +	14	ch.14 +
7	ch. 7 +	15	ch.15 +
8	ch. 8 +	16	ch.16 +
19	COM –	27	COM –

17, 18, 20 – 26, 28 – 36: Unused

Pin assignments are the same for both CN1 and CN2.

■ Yokogawa DCS connector

PS-40PE-D4LT1-PN1

•Location for ST card**CN1:** input (KS2 cable use)**CN2:** output (KS2 cable use)

38-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
ST2 / ST3 / ST4 CARD INPUT / OUTPUT NO.															

Pin assignments are the same for both CN1 and CN2.



Specifications are subject to change without notice.