

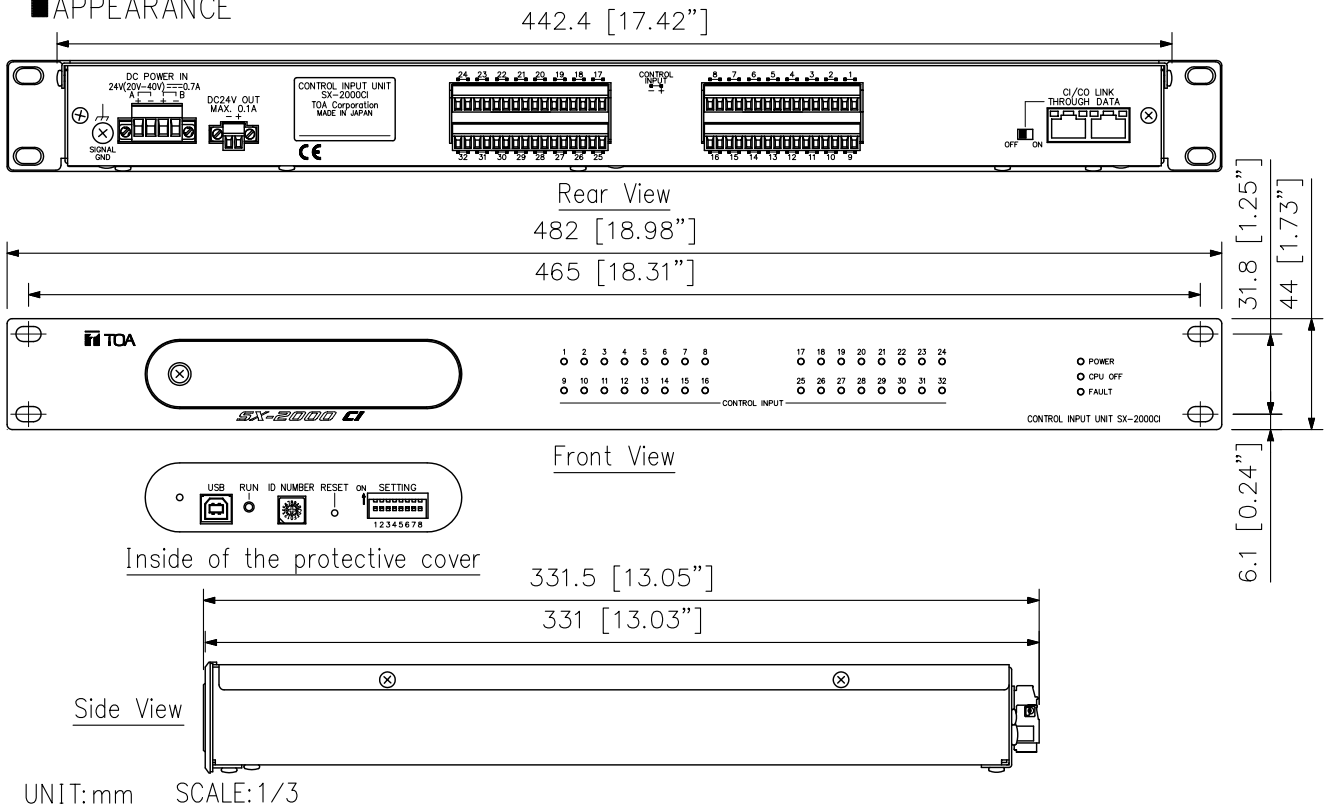
## DESCRIPTION

The SX-2000CI is a control input of the matrix system and can be mounted in an EIA equipment rack (1 U size). Multiple units can be decentralized in a whole system. It is equipped with 32 control input channels. Control input line failure can be detected by connecting resistors to its line. The indicators on the front panel monitor the control input line status. The SX-2000CI has a function to supply a stabilized 24 V DC. The SX-2000CI has two power inputs and can support a dual-redundant power supply system.

## SPECIFICATIONS

Power Source	Usable power supply unit: VX-200PS 24 V DC (operational range: 20 V - 40 V DC) Two power inputs construction enables dual-redundant power supply.
Current Consumption	0.7 A or less (maximum value in the power operating range) 0.55 A or less (when operated on 24 V DC)
Indication	Control input indicator (32), Power indicator, CPU OFF indicator, FAULT indicator
Control Input	32 inputs, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA, photo coupler input, removable terminal block (16 pins)
Surveillance Section for The Control Input Lines	Connection resistance to make the function inactive: 20 kΩ ±5% Connection resistance to make the function active: 10 kΩ ±5% Connector cable: Twisted pair cable (shielded type is recommended) Maximum cable distance: 10 m (32.81 ft)
CI/CO Link	
Input/Output Connector	Input: 1 input, Output: 1 output RJ45 Connector
Connection Cable	Shielded Category 5 twisted pair cable (CAT5-STP) (1 pair of data wire + 1 pair of control wire)
Maximum Cable Distance	800 m (874.89 yd)
24 V DC Output	
Output Voltage	24 V DC ±10% or less
Maximum Feeding Current	100 mA
Connector	Removable terminal block (2 pins)
Operating Temperature	0°C to +40°C (32°F to 104°F)
Operating Humidity	35% to 80% RH (no condensation)
Finish	Panel: Aluminum, black, alumite Case: Surface-treated steel plate
Dimensions	482 (W) × 44 (H) × 331.5 (D) mm (18.98" × 1.73" × 13.05")
Weight	3.6 kg (7.94 lb)
Accessory	Removable terminal plug (16 pins) ×4, Removable terminal plug (4 pins) ×1, Removable terminal plug (2 pins) ×1, Rack mounting screw ×4

## APPEARANCE



## DESCRIPTION

The SX-2000CI is a control input of the matrix system and can be mounted in an EIA equipment rack (1 U size). Multiple units can be decentralized in a whole system. It is equipped with 32 control input channels. Control input line failure can be detected by connecting resistors to its line. The indicators on the front panel monitor the control input line status. The SX-2000CI has a function to supply a stabilized 24 V DC. The SX-2000CI has two power inputs and can support a dual-redundant power supply system. By using a stand-alone mode, system can be configured with only the SX-2000CI, SX-2000CO Control output unit and the power supply unit, permitting the contact data of multiple channels to be transmitted to the remote locations with simple wiring.

## SPECIFICATIONS

When operating in matrix mode

Power Source	Usable power supply unit: AD-011, AD-031B 24 V DC (operational range: 20 V – 40 V DC) Two power inputs construction enables dual-redundant power supply.
Current Consumption	0.7 A or less (maximum value in the power operating range) 0.55 A or less (when operated on 24 V DC)
Indication	Control input indicator (32), Power indicator, CPU OFF indicator, FAULT indicator
Control Input	32 inputs, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA, photo coupler input, removable terminal block (16 pins)
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CI/CO Link	
Input/Output Connector	Input: 1 input, Output: 1 output RJ45 Connector
Connection Cable	Shielded Category 5 twisted pair cable (CAT5-STP) (1 pair of data wire + 1 pair of control wire)
Maximum Cable Distance	800 m (874.89 yd)
24 V DC Output	
Output Voltage	24 V DC ±10 % or less
Maximum Feeding Current	100 mA
Connector	Removable terminal block (2 pins)
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	35 % to 80 %RH (no condensation)
Finish	Panel: Aluminum, black, alumite Case: Surface-treated steel plate
Dimensions	482 (W) × 44 (H) × 331.5 (D) mm (18.98" × 1.73" × 13.05")
Weight	3.6 kg (7.94 lb)
Accessory	Removable terminal plug (16 pins) ×4, Removable terminal plug (4 pins) ×1, Removable terminal plug (2 pins) ×1, Rack mounting screw ×4

When operating in stand-alone mode

Power Source	Usable power supply unit: AD-011, AD-031B 24 V DC (operational range: 20 V – 40 V DC) Two power inputs construction enables dual-redundant power supply.
Current Consumption	0.7 A or less (maximum value in the power operating range) 0.55 A or less (when operated on 24 V DC)
Indication	Control input indicator (32), Power indicator, CPU OFF indicator, FAULT indicator
Control Input	32 inputs, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA, photo coupler input, removable terminal block (16 pins)
Priority Control	No priority control, Terminal number-based priority, Last-in-first-out priority, and First-in-first-out priority
Connection Cable	Main cable: Shielded CPEV cable* or STP Category 5 straight cable * When connecting the power supply to each unit: 1 pair for data line When connecting the power supply only to the SX-2000CI: 1 pair data line and 2 pairs power line for a redundant power supply system, or 1 pair data line and 1 pair power line for a non-redundant power supply system Branch cable: STP Category 5 straight cable (with RJ45 connectors)
Maximum Cable Distance	800 m (874.89 yd)
Maximum Delay Time	300 ms

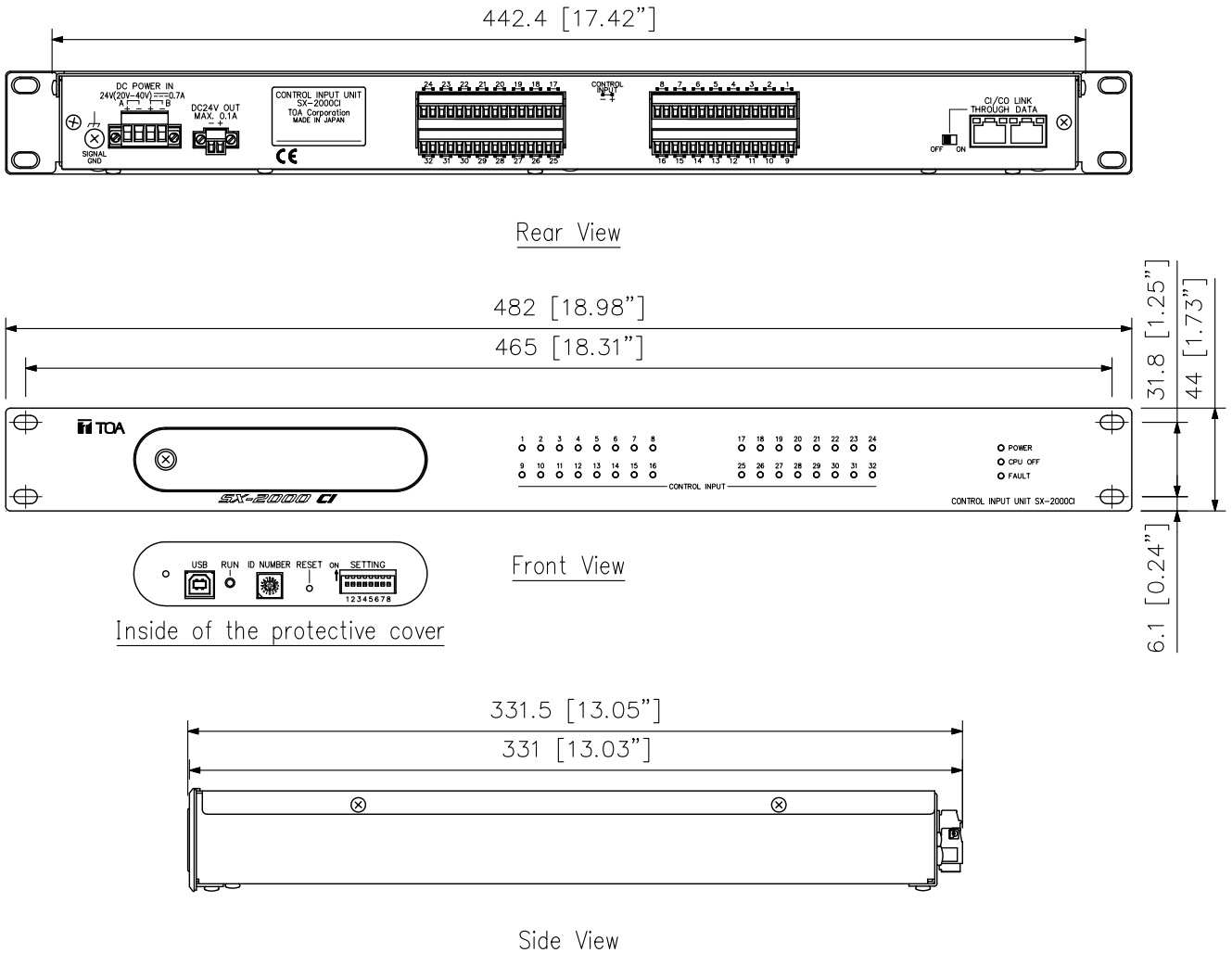
## ■ SPECIFICATIONS

24 V DC Output	
Output Voltage	24 V DC $\pm 10\%$ or less
Maximum Feeding Current	100 mA
Connector	Removable terminal block (2 pins)
Operating Temperature	
Operating Humidity	0 °C to +40 °C (32 °F to 104 °F)
Finish	35 % to 80 %RH (no condensation)
	Panel: Aluminum, black, alumite Case: Surface-treated steel plate
Dimensions	482 (W) × 44 (H) × 331.5 (D) mm (18.98" × 1.73" × 13.05")
Weight	3.6 kg (7.94 lb)
Accessory	Removable terminal plug (16 pins) $\times 4$ , Removable terminal plug (4 pins) $\times 1$ , Removable terminal plug (2 pins) $\times 1$ , Rack mounting screw $\times 4$
Option	DC power supply panel: AD-011, AD-031B Terminal unit: RM-200RJ

Conductor diameter of the main cable vs. maximum cable length (when the RM-200RJ is used)

Conductor diameter	Maximum Cable Distance
$\phi 0.65$ mm ( $\phi 0.026$ " )	160 m (175.04 yd)
$\phi 0.9$ mm ( $\phi 0.035$ " )	320 m (350.08 yd)
$\phi 1.2$ mm ( $\phi 0.047$ " )	570 m (623.58 yd)
$\phi 0.9$ mm ( $\phi 0.035$ " ) AWG 16 × 3 pairs CPEV (2 pairs for DC and 1 pair for data)	640 m (700.16 yd)
$\phi 1.2$ mm ( $\phi 0.047$ " ) AWG 16 × 3 pairs CPEV (2 pairs for DC and 1 pair for data)	800 m (875.20 yd)

## ■ APPEARANCE



UNIT:mm SCALE:1/3