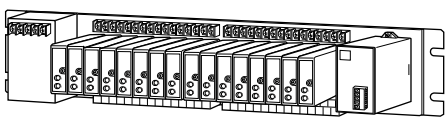
Dual Output Super-mini Signal Conditioners Pico-M Series

INSTALLATION BASE (for network interface)

Functions & Features

• Holding up to 16 modules of Pico-M series signal conditioners
• Direct connection to various networks via the 61-Unit Analog Input Modules mounted on the base
• Power supplied through printed wiring on the base
• Saving wiring work within an instrumentational panel



MODEL: M8BS2–[1][2]–[3][4]

ORDERING INFORMATION

• Code number: M8BS2-[1][2]-[3][4]
Specify a code from below for each of [1] through [4].
(e.g. M8BS2-161-R/Q)
• Specify the specification for option code /Q
(e.g. /C01)

[1] CAPACITY

04: 4 positions
08: 8 positions
16: 16 positions

[2] I/O TYPE

1: Input (Select 1 – 5V for Output 1.)
2: Output (Select model M8YVx with 1 – 5V input.)
3: Output (Select model M8YSx with 1 – 5V input.)
4: Input/Output
(Input channel 8 points: Select 1 - 5 V for Output 1.)
(Output channel 8 points: Select model M8YVx with 1 - 5V input.)
(Specify capacity code 16.)
(Only 61C-163-R is available for related products.)
(CE not available)

[3] POWER INPUT

AC Power
M2: 100 – 240 V AC (Operational voltage range 85 – 264 V, 47 – 63 Hz)
DC Power
R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

[4] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's web site.)
Only solder side of the main PWB is coated.
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating

RELATED PRODUCTS

• Analog I/O Module (model: 61x)
Specify power input code 'R' (24V DC).
For Input/Output type, specify 61C-163-R.

GENERAL SPECIFICATIONS

Capacity: 4, 8 or 16 positions
Connection
Power input: M3.5 screw terminals (torque 0.8 N·m)
Input and output: M3.5 screw terminals (torque 0.8 N·m)
Screw terminal: Nickel-plated steel
Isolation: Input to output 1 to output 2 to power to FG
Power indicator LED: ON with normal voltage level

INSTALLATION

Power Consumption
•**AC**: 130 VA min.
•**DC**: 2.5 A min.
Operating temperature: 0 to 55°C (32 to 131°F)
0 to 50°C (32 to 122°F) for AC power
Operating humidity: 30 to 90 %RH (non- condensing)
30 to 85 %RH for AC power
Atmosphere: No corrosive gas or heavy dust
Mounting: Surface
Weight
AC power:
1.0 kg (2.2 lb) (4 positions)
1.2 kg (2.6 lb) (8 positions)
2.5 kg (5.5 lb) (16 positions)
DC power:
0.6 kg (1.3 lb) (4 positions)
0.8 kg (1.8 lb) (8 positions)
2.0 kg (4.4 lb) (16 positions)

PERFORMANCE

Insulation resistance
Input use: ≥ 100 MΩ with 500 V DC
(input to output 2 to power to FG)
Output use: ≥ 100 MΩ with 500 V DC

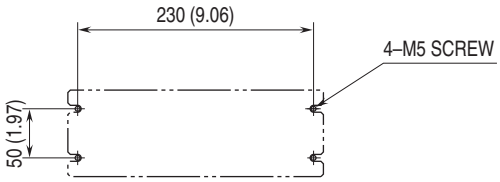
(output 1 to output 2 to power to FG)
Input/Output use: ≥ 100 MΩ with 500 V DC
(Input(input side) to Output 2(input side) to Output 1(output side) to Output 2(output side) to power to FG)
Dielectric strength
• **Input use**
DC power:
1500 V AC @1 minute (input to output 2 or power to FG)
500 V AC @1 minute (output 2 to power)
AC power:
1500 V AC @1 minute (input to output 2 or power)
1500 V AC @1 minute (input to FG)
500 V AC @1 minute (output 2 to power to FG)
• **Output use (M8YVx)**
DC power:
1500 V AC @1 minute (output 1 or output 2 or power to FG)
500 V AC @1 minute (output 1 to output 2 to power)
AC power:
1500 V AC @1 minute (input to output 1 or output 2 or power)
1500 V AC @1 minute (input to FG)
500 V AC @1 minute (output 1 to output 2 to power to FG)
• **Output use (M8YSx)**
DC power:
1500 V AC @1 minute (input or output or power to FG)
500 V AC @1 minute (input to power)
AC power:
1500 V AC @1 minute (output to input or power)
1000 V AC @1 minute (output to FG)
500 V AC @1 minute (input to power to FG)
• **Input/Output use**
DC power:
1500 V AC @1 minute (Input(input side) to Output 2(input side) or Output 1(output side) or Output 2(output side) or power to FG)
500 V AC @1 minute (Output 2(input side) to Output 1(output side) to Output 2(output side) to power)
AC power:
1500 V AC @1 minute (Input(input side) to Output 2(input side) or Output 1(output side) or Output 2(output side) or power)
1500 V AC @1 minute (Input(input side) to FG)
500 V AC @1 minute (Output 2(input side) to Output 1(output side) to Output 2(output side)to power to FG)

STANDARDS & APPROVALS

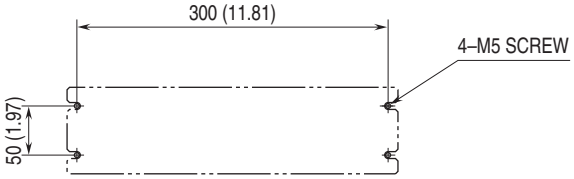
EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
Low Voltage Directive
The AC power unit conforms with the following standards:
EN 50178
Installation Category II
Pollution Degree 2
Max. operating voltage 300 V
RoHS Directive

MOUNTING REQUIREMENTS unit: mm (inch)

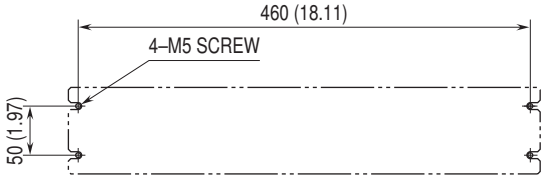
■ **M8BS2-04x**



■ **M8BS2-08x**



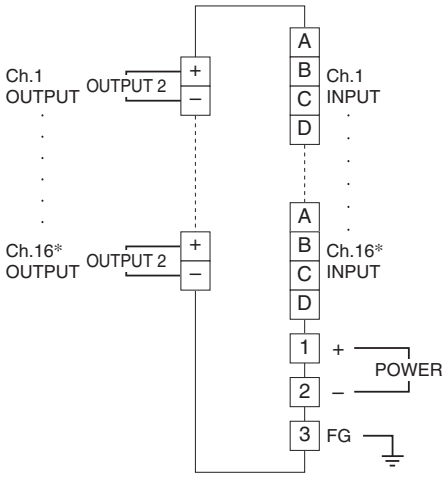
■ **M8BS2-16x**



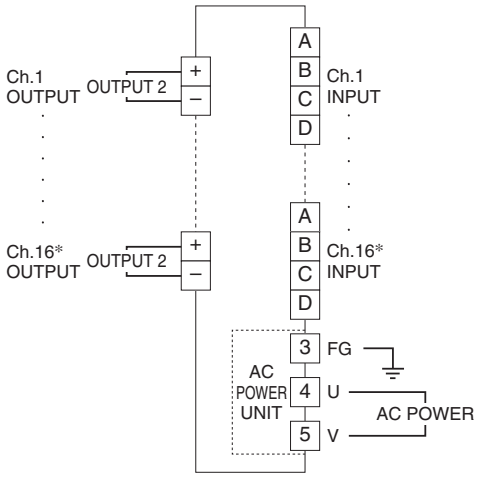
CONNECTION DIAGRAM

■ **FIELD INPUT TYPE**

•DC Power Supply



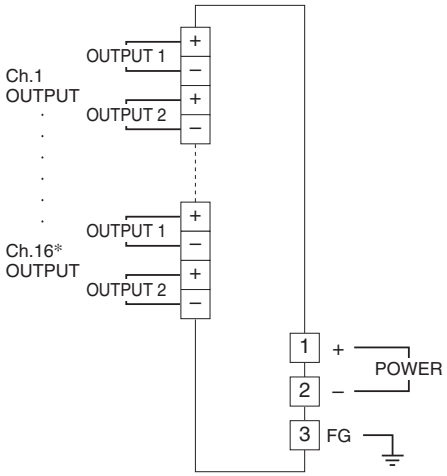
•AC Power Supply



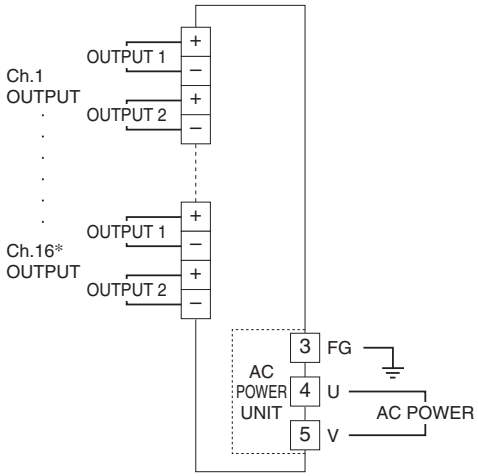
*Up to 4 channels for M8BS2-04, 8 channels for M8BS2-08.

■ **FIELD OUTPUT TYPE (M8YVx)**

•DC Power Supply



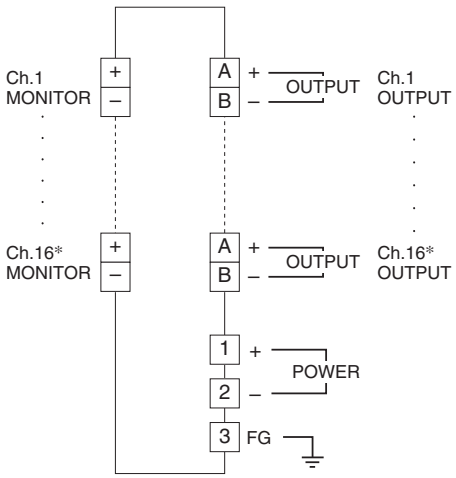
•AC Power Supply



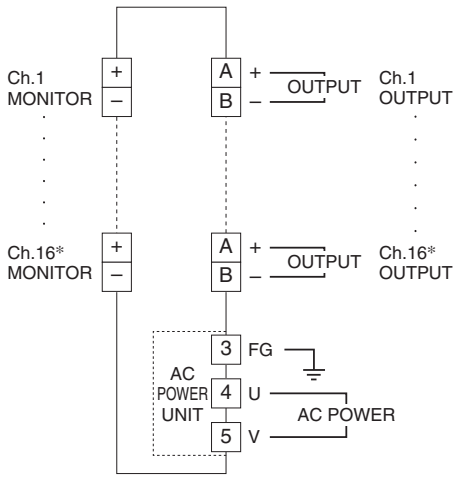
*Up to 4 channels for M8BS2-04, 8 channels for M8BS2-08.

■ **FIELD OUTPUT TYPE (M8YSx)**

•DC Power Supply



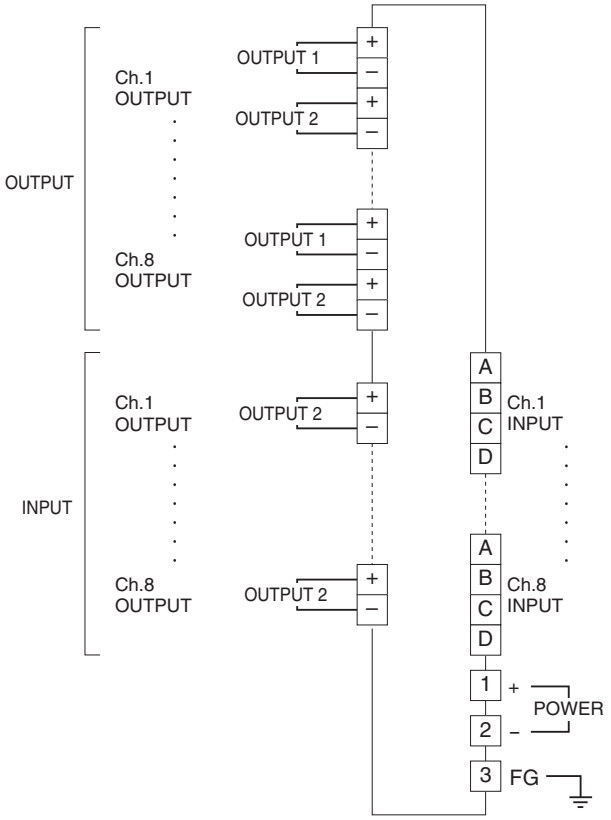
•AC Power Supply



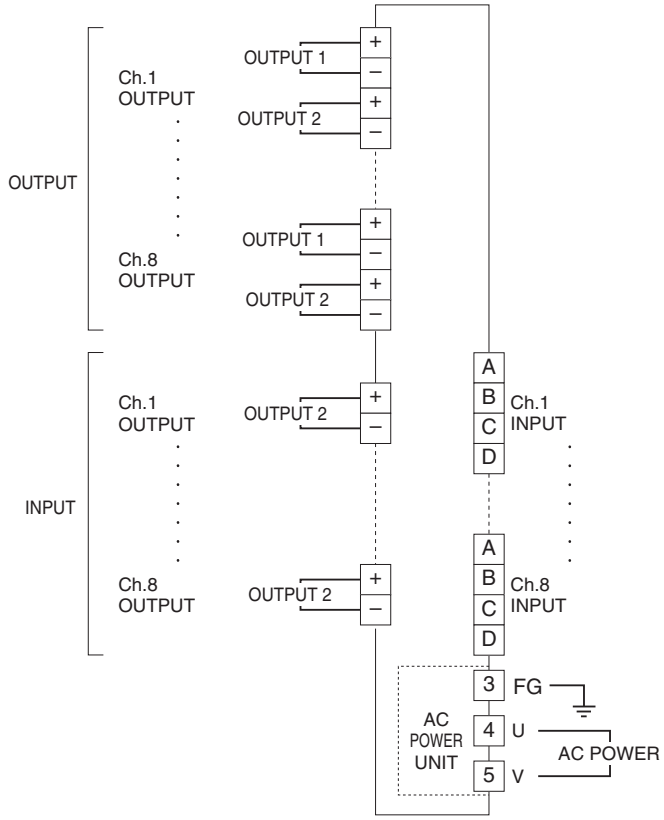
*Up to 4 channels for M8BS2-04, 8 channels for M8BS2-08.

■ INPUT/OUTPUT TYPE

•DC Power Supply

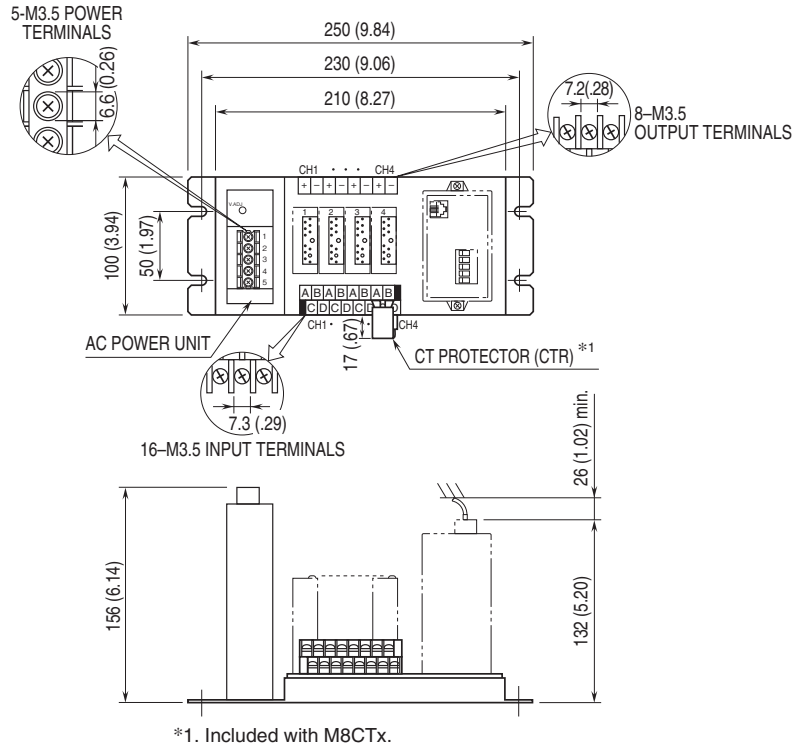


•AC Power Supply



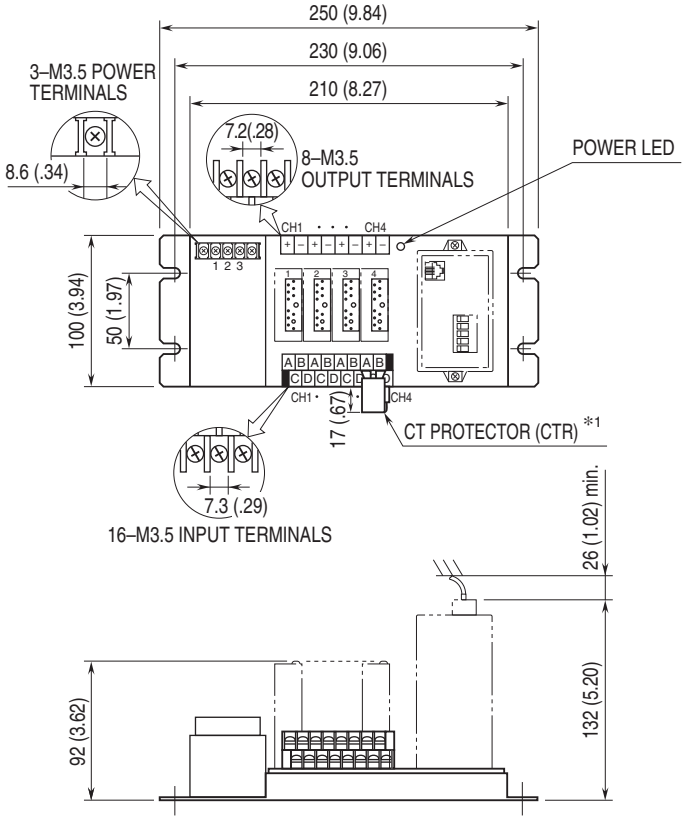
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

■ M8BS2-041-M2



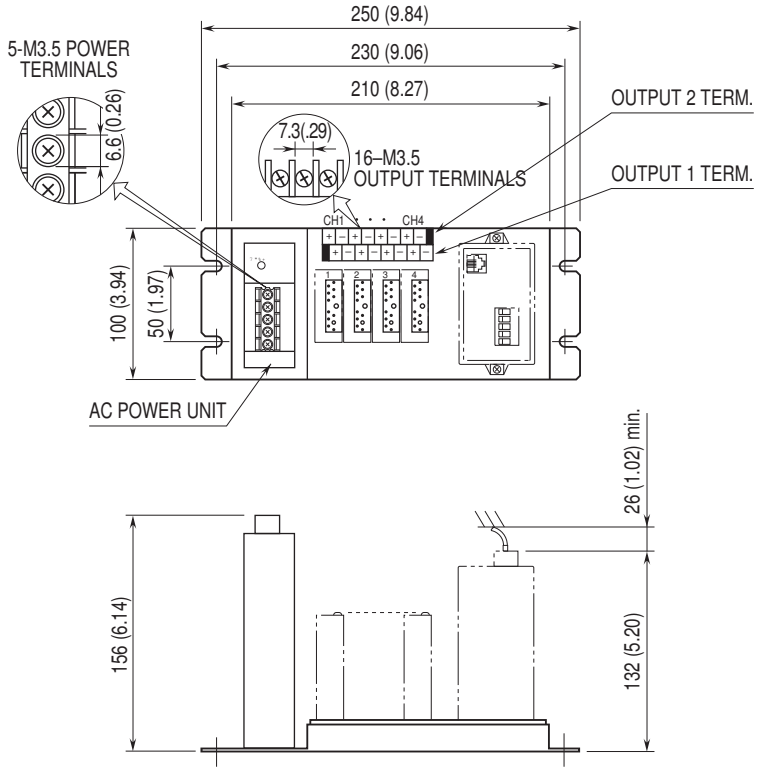
*1. Included with M8CTx.

■ **M8BS2-041-R**

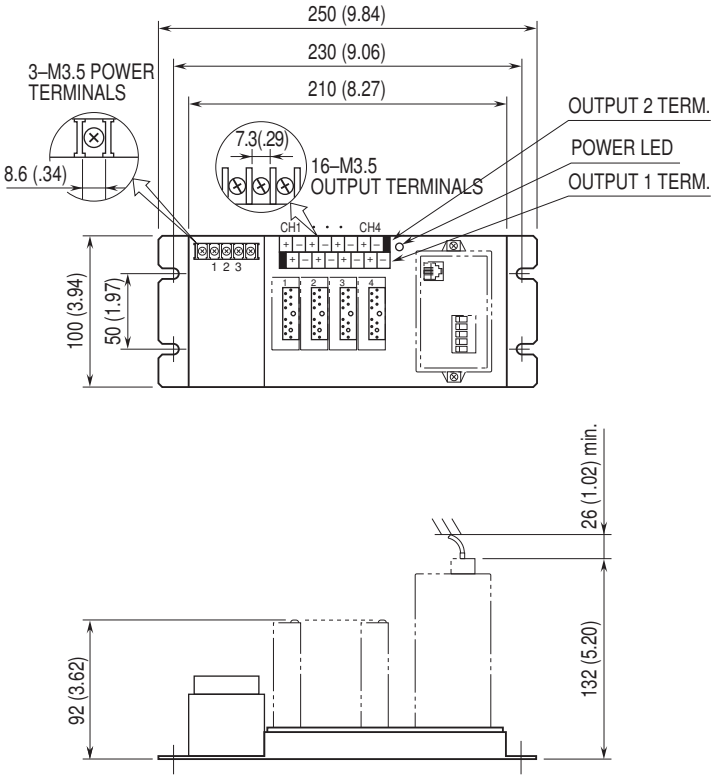


*1. Included with M8CTx.

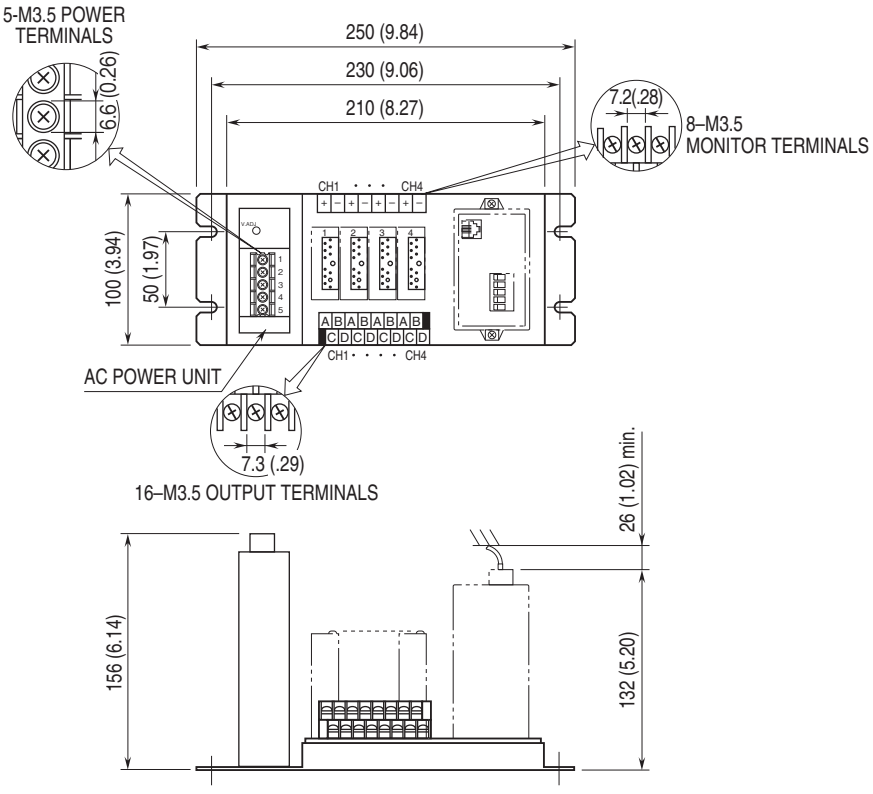
■ **M8BS2-042-M2**



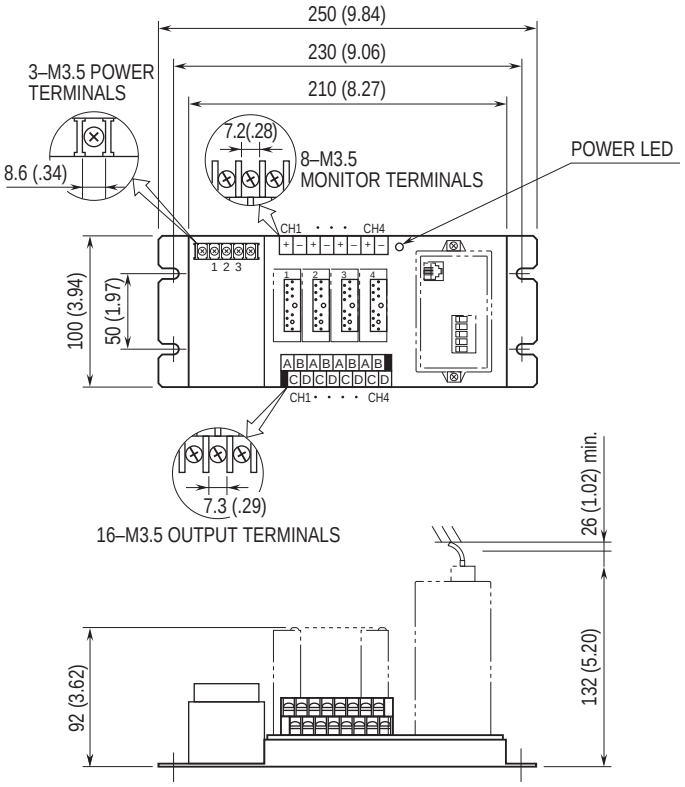
■ **M8BS2-042-R**



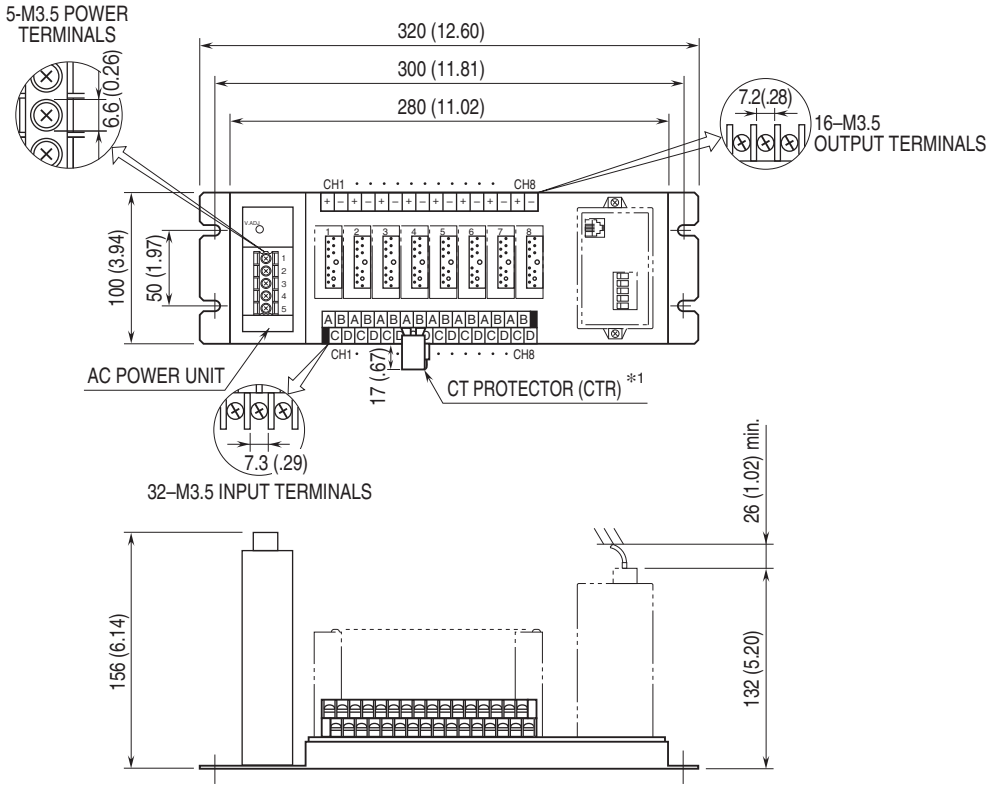
■ **M8BS2-043-M2**



■ **M8BS2-043-R**



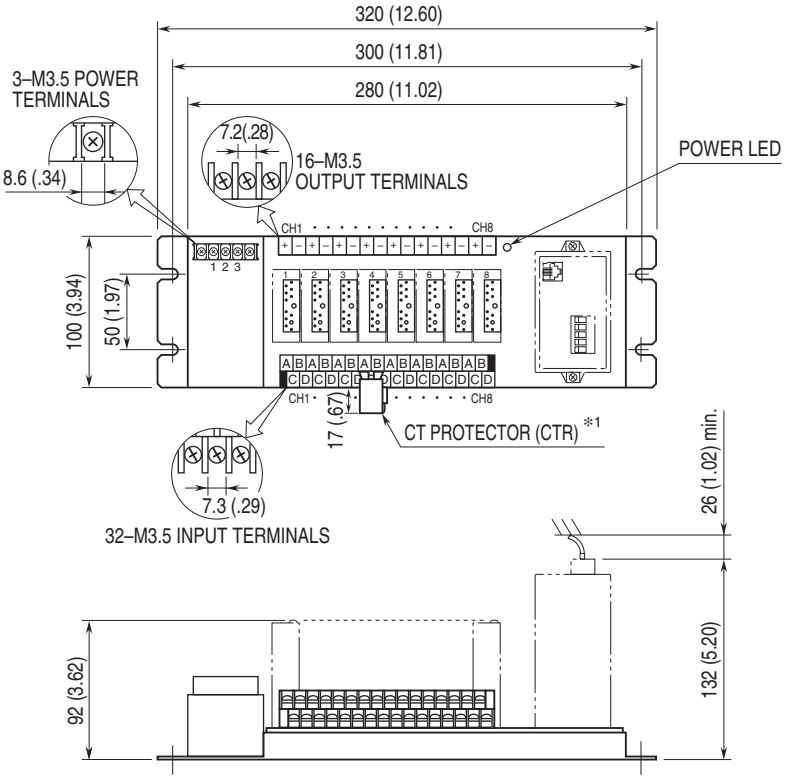
■ **M8BS2-081-M2**



*1. Included with M8CTx.

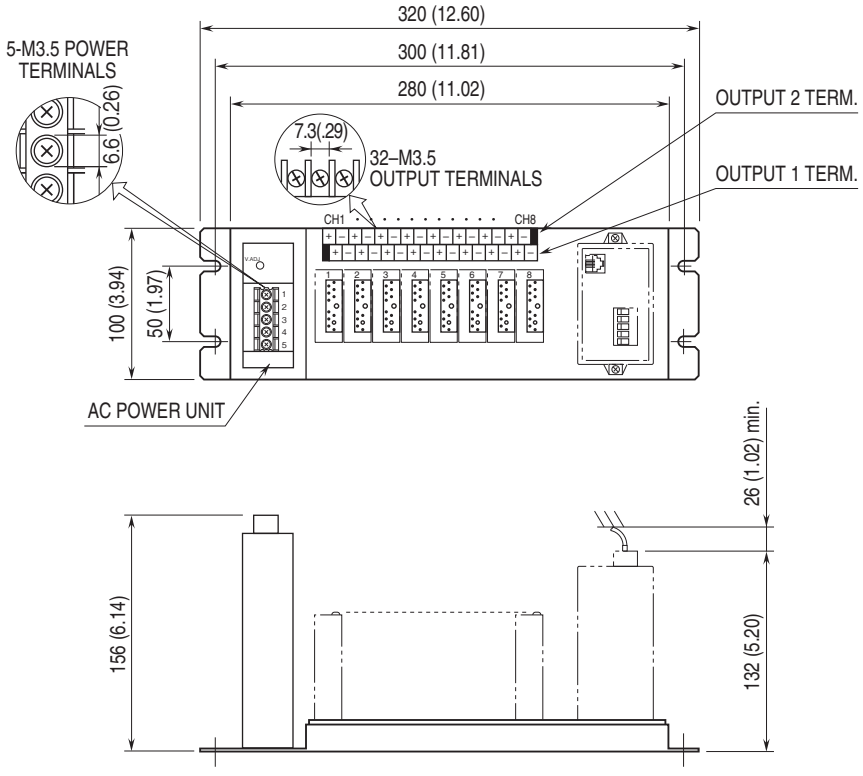
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http://www.m-system.co.jp/

■ **M8BS2-081-R**

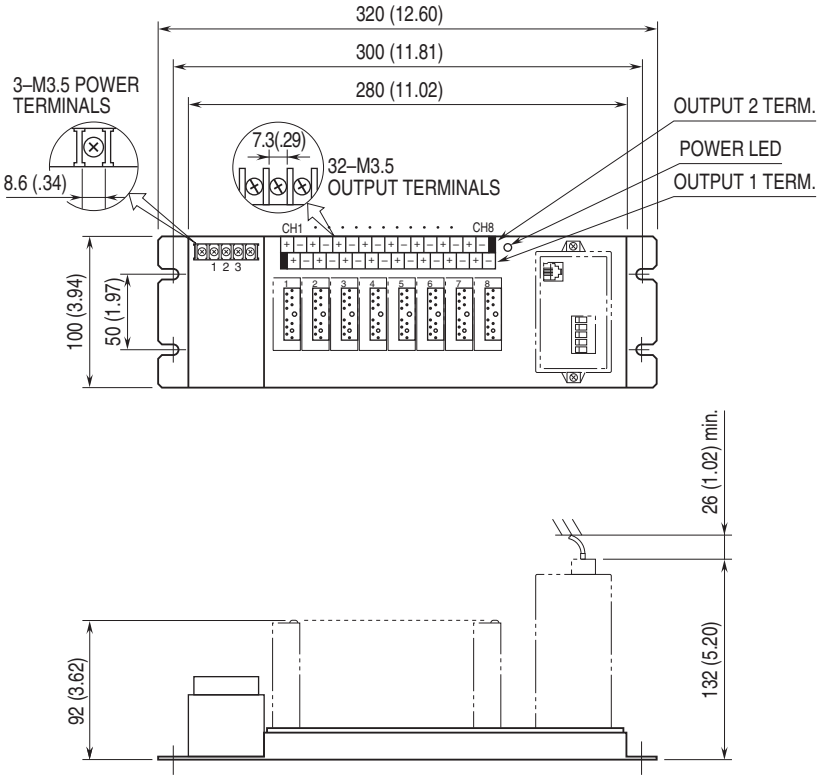


*1. Included with M8CTx.

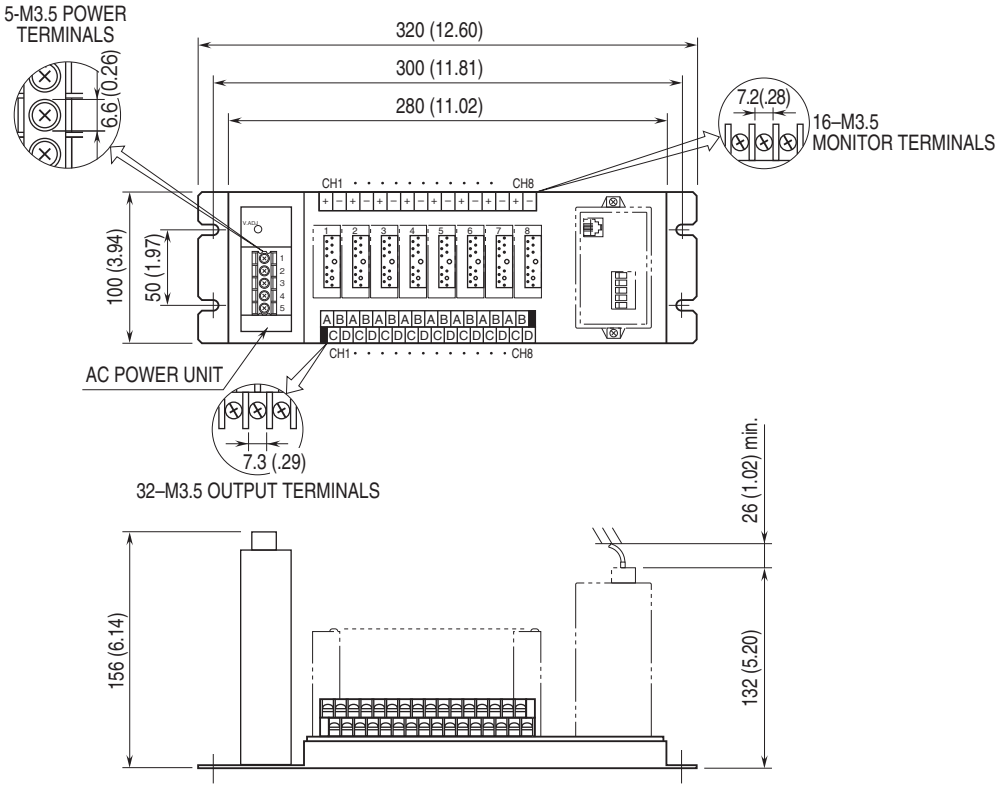
■ **M8BS2-082-M2**



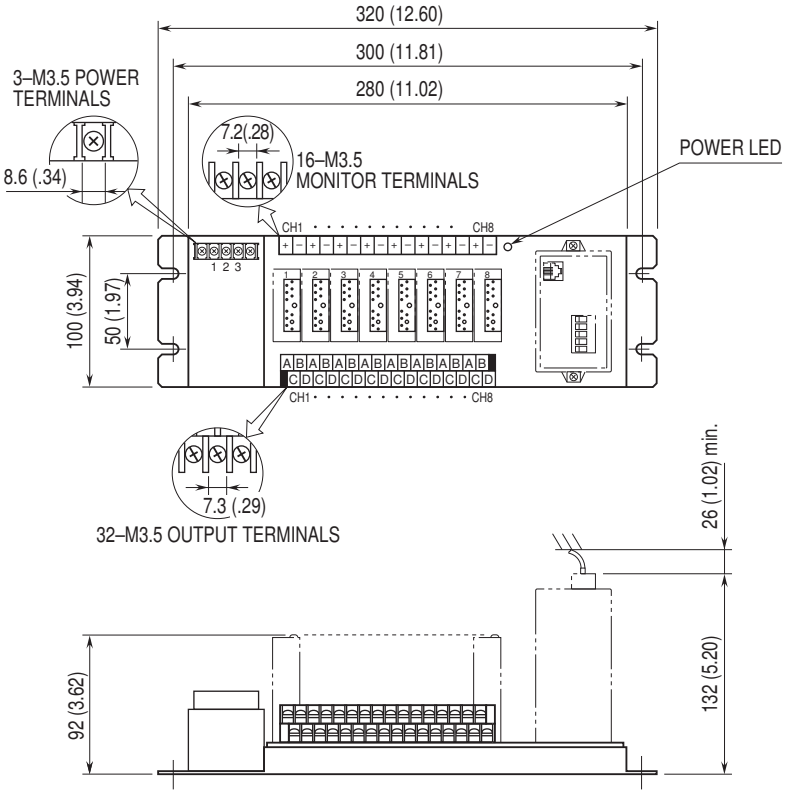
■ **M8BS2-082-R**



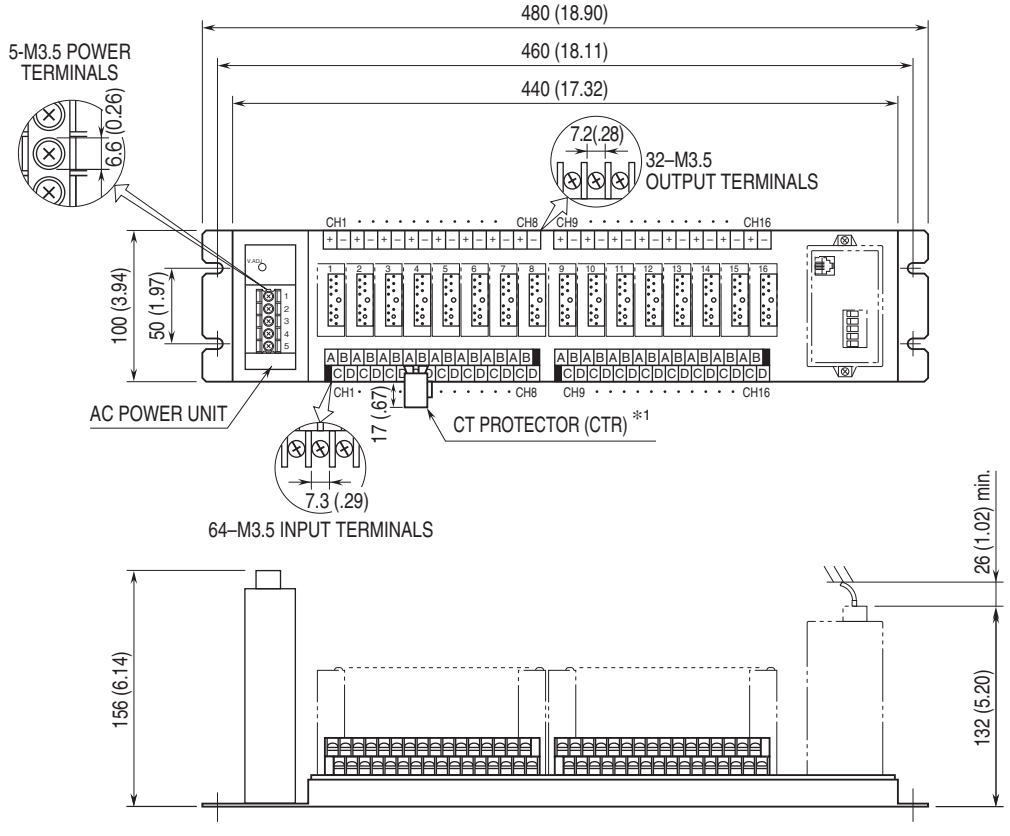
■ **M8BS2-083-M2**



■ **M8BS2-083-R**



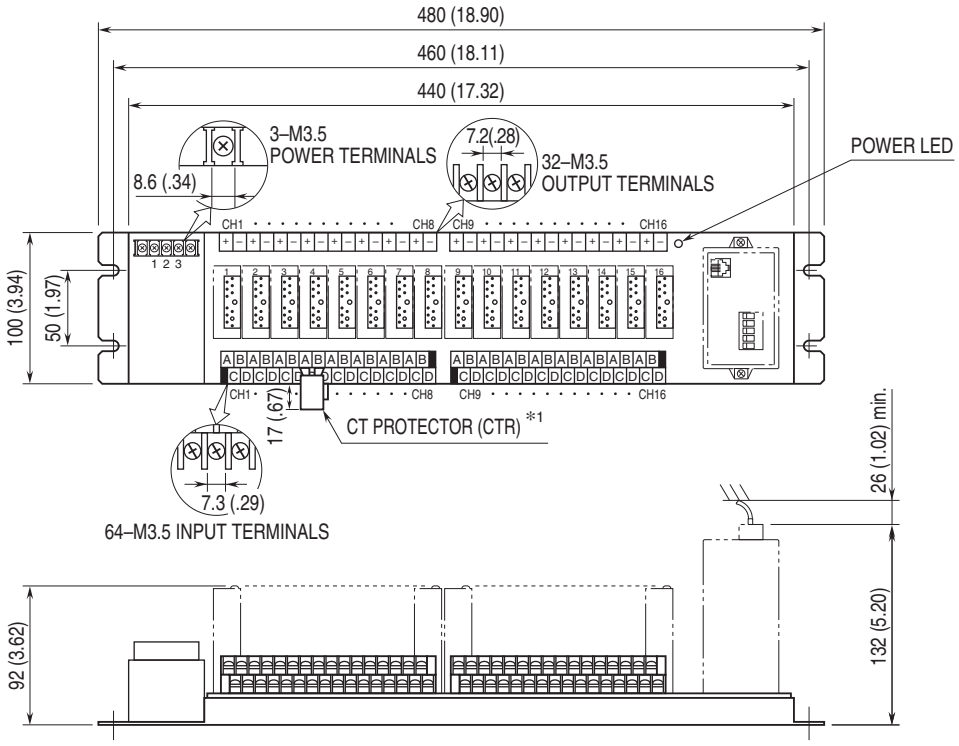
■ **M8BS2-161-M2**



*1. Included with M8CTx.

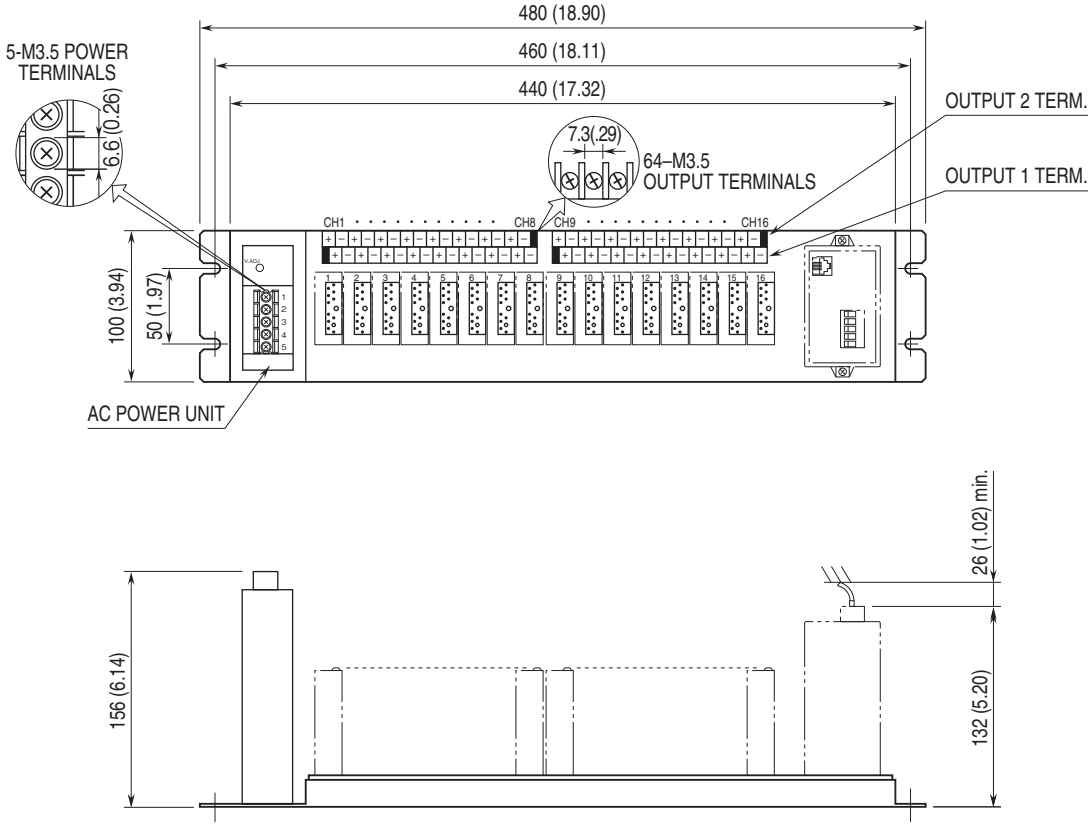
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http://www.m-system.co.jp/

■ **M8BS2-161-R**

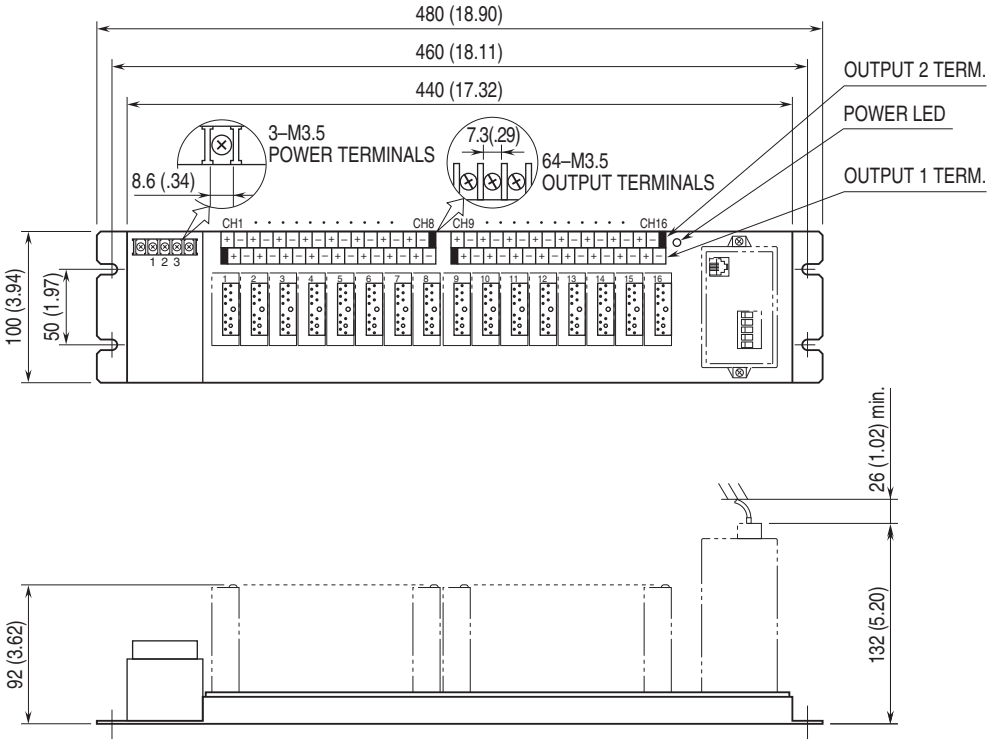


*1. Included with M8CTx.

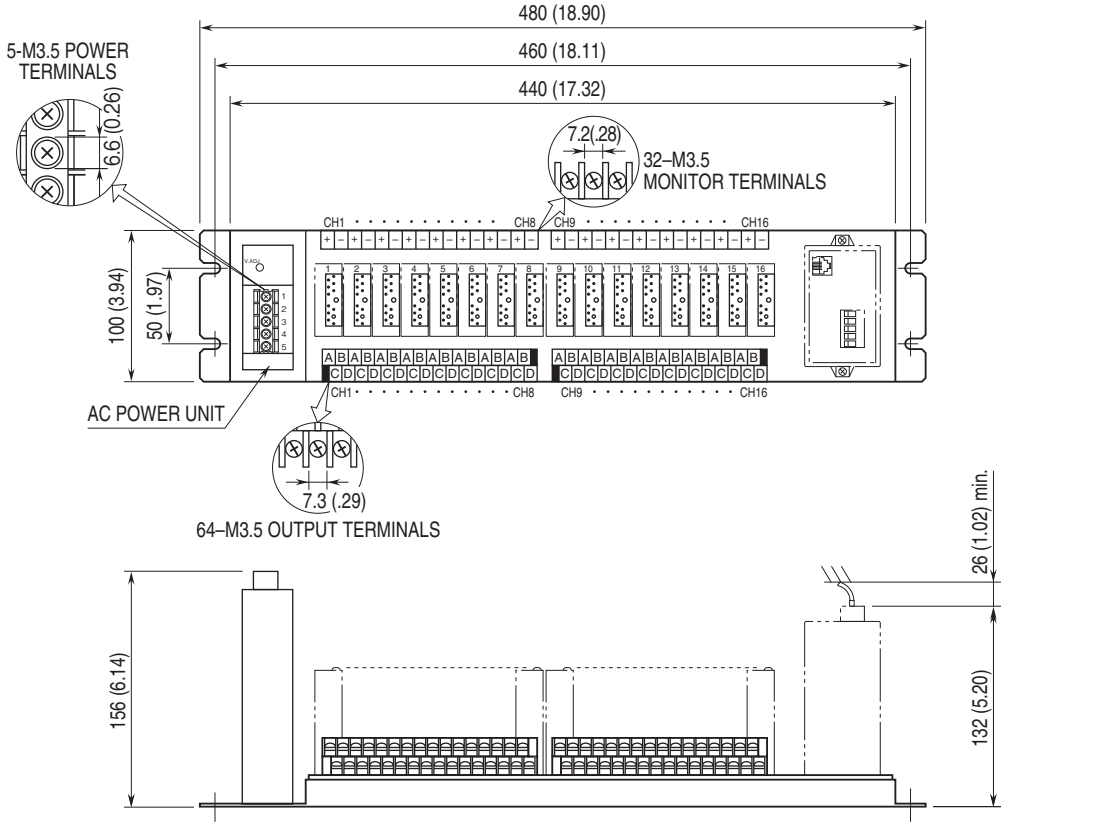
■ **M8BS2-162-M2**



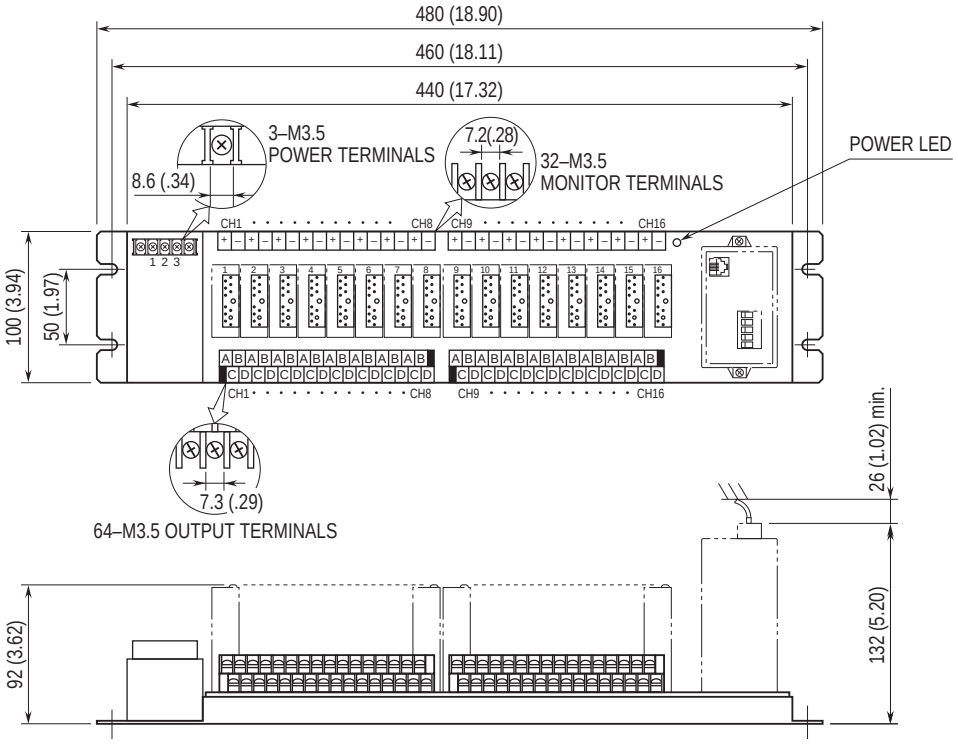
■ **M8BS2-162-R**



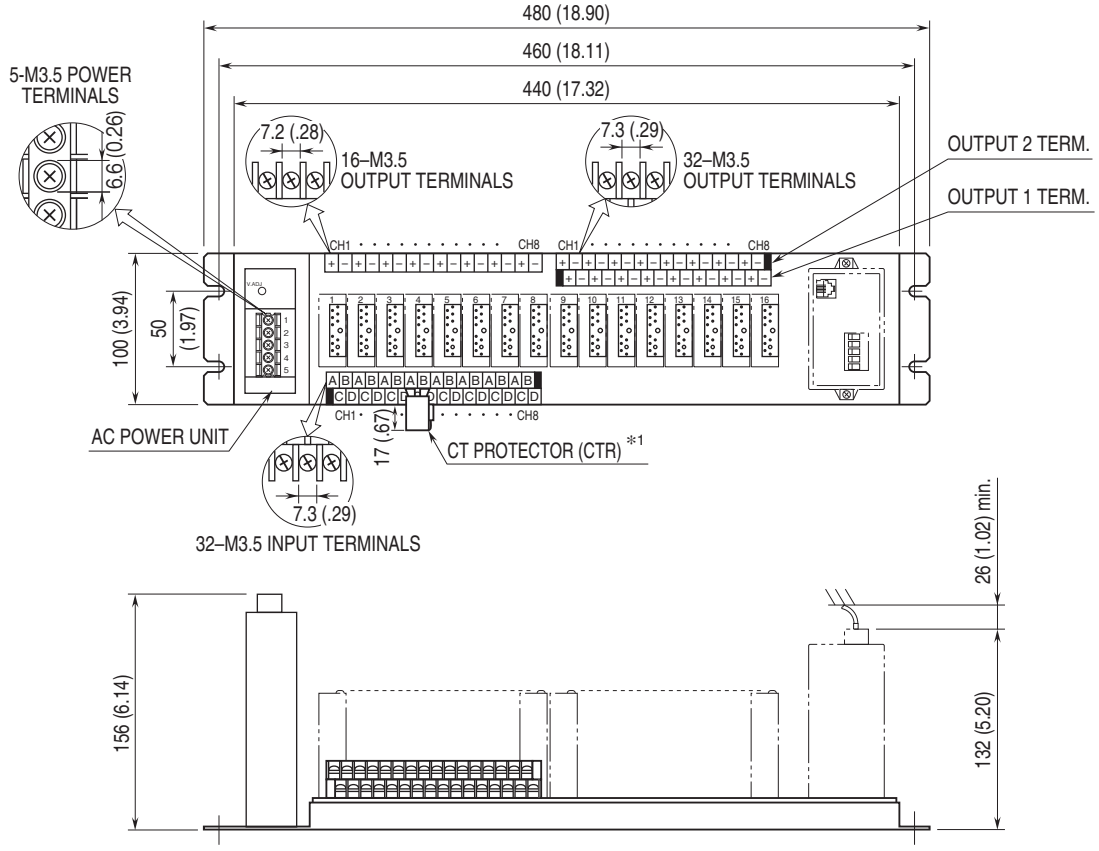
■ **M8BS2-163-M2**



■ **M8BS2-163-R**



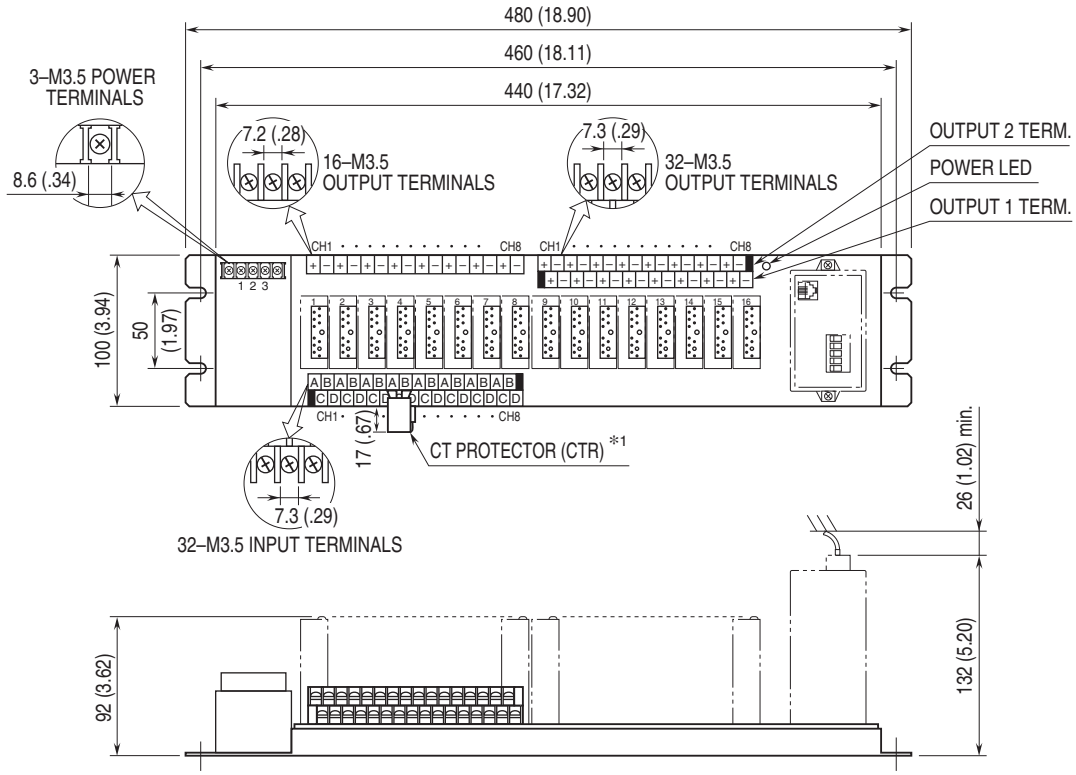
■**M8BS2-164-M2**



*1. Included with M8CTx.

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■M8BS2-164-R



*1. Included with M8CTx.

⚠ Specifications are subject to change without notice.