

Molding Pressure Conversion Module Built In Relay Box MRB-304-BI

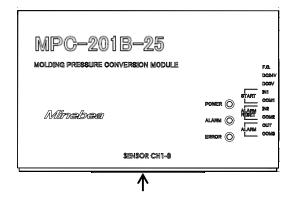
Spec. No. EN353304BI-A

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1. General

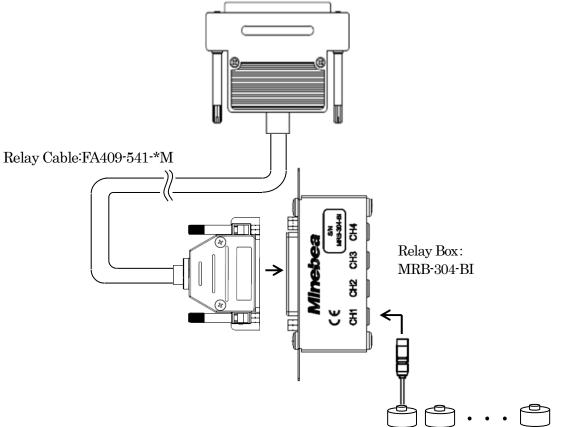
This unit is used when wiring the force sensor LSMS embedded in the mold up to 4ch to the molding pressure conversion module MPC-201B-25. A dedicated cable FA409-541- * M is required to connect to the MPC-201B-25.

1-1. Systematic chart



8-channels amplifier: MPC-201B-25

Up to 4 pieces of force sensor LSMS



*This unit can be also used in combination with MPC-201-25.



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2. General Specification

• Operating temperature/humidity range

Temperature $0 \,^{\circ}\text{C} \sim 100 \,^{\circ}\text{C}$

Humidity 85 %RH or less (Non Condensing)

• Stored temperature range $-10~^{\circ}\text{C} \sim 100~^{\circ}\text{C}$

• Vibration resistance $10 \sim 55 \text{ Hz}$ double amplitude 1.5 mm

2 hours for each direction of X, Y or Z.

• Outline dimensions (W)98mm x (H)14.8 mm x (D)39.1 mm (Excludes protruding parts.)

Weight Approx. 80 gMaterial of case SUS304

• Applicable transducer LSMS-S06, LSMSB series

Up to 4 units can be connected

• Applicable amplifier MPC-201-25, MPC-201B-25

3. Accessories

• Instruction manual 1 pad

4. Relay Cable (Options)

• Model FA409-541-2M (Cable length 2m)

FA409-541-5M (Cable length 5m) FA409-541-10M (Cable length 10m)

• Operating temperature/humidity range

Temperature 0 $^{\circ}$ C \sim 100 $^{\circ}$ C (Connector on amplifier side 0 $^{\circ}$ C \sim 50 $^{\circ}$ C)

Humidity 85 %RH or less (Non Condensing)

• Stored temperature range $0 \, ^{\circ}\text{C} \sim 50 \, ^{\circ}\text{C}$

(Because operation temperature range of the connector on amplifier

side is up to 50° C.)

• Cable outer diameter Approx. 8.3mm

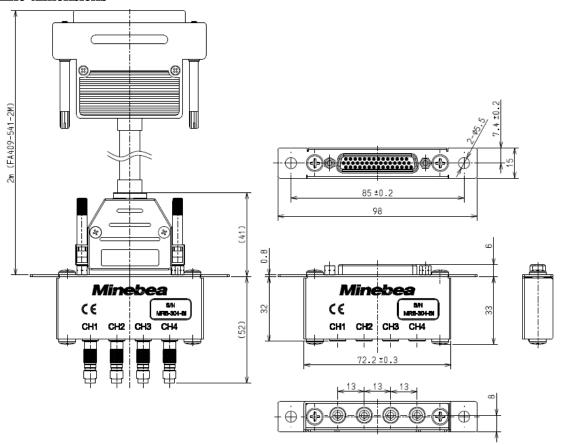
• Minimam bending radius 50mm



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5. Outline dimensions



Unit:mm



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6. Conformity standard

This instrument has suited the following standard.

EN 61326-1:2013

[Electrical equipment for measurement, control, and laboratory use - EMC requirements] [Immunity test requirements for equipment intended for use in industrial locations]

RoHS compliant

To meet the above-mentioned standards, the usage conditions of the entire system including this unit are specified as follows:

6-1. Power supply

• Be sure to use "CE mark compliant product" as DC 24 V power supply for the Amplifier MPC-201B-25.

6-2. **Cable**

- Use the shielded cable other than the power cable.
- Mount the provided ferrite core to USB cable as shown in [5-2-4. USB connection] of the instruction manual of MPC-201B-25.

6-3. Shield processing

- Connect the shield cable of I/O with the protective ground terminal.
- Connect the shield cable of V-OUT with F.G. terminal.
- Ground the shield of the opposite side of the I/O cable and the V-OUT cable. (Both ends grounding)

6-4. Grounding

- Make a single ground for the Amplifier MPC-201B-25 with the protective ground terminal on the rear panel.
 - * Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.