Minebea

Specifications

Molding Pressure Conversion Module
Relay Box

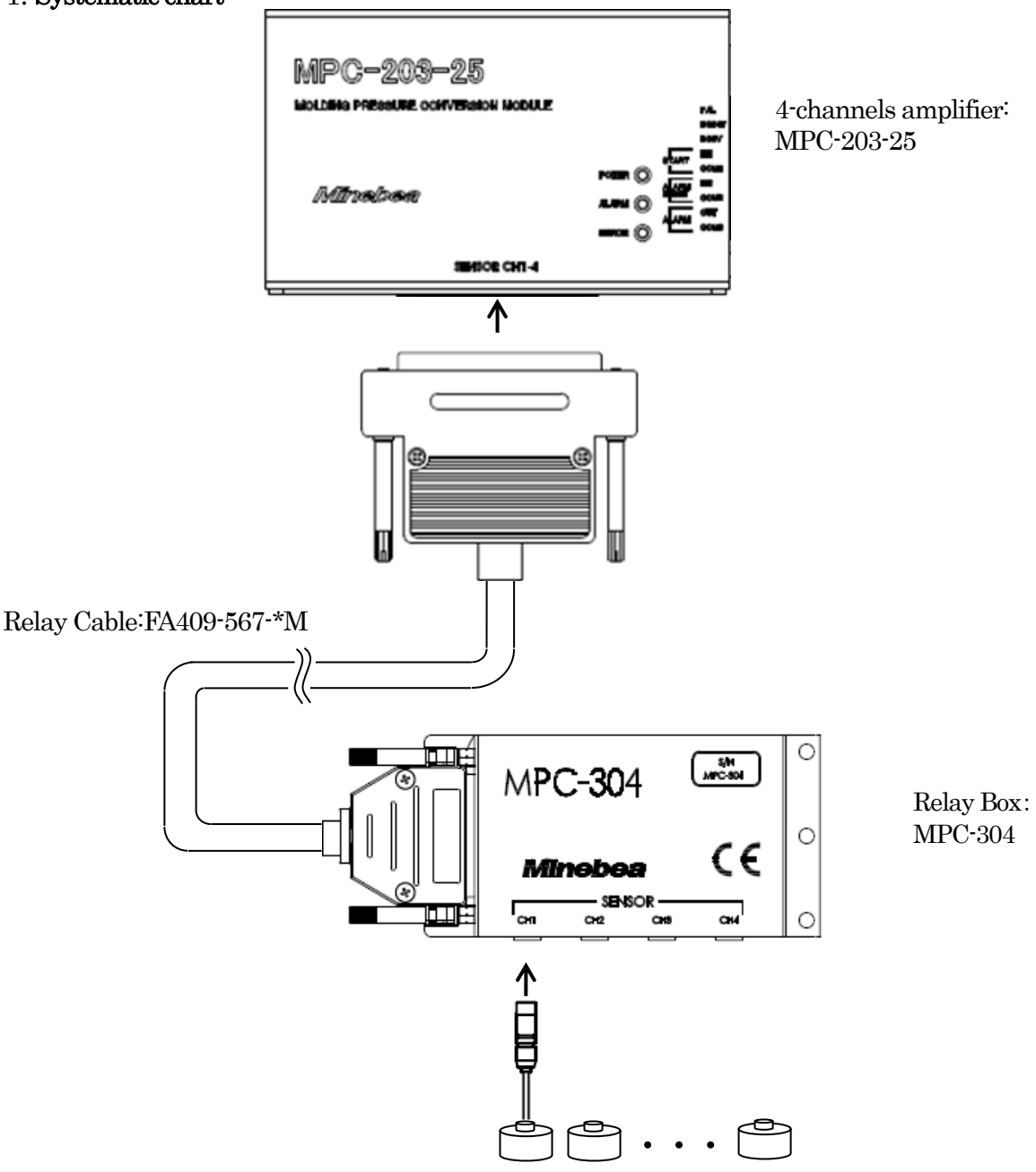
MPC-304

Spec. No. EN353304 1/4

1. General

This unit is used when wiring the force sensor LSMS embedded in the mold to the molding pressure conversion module MPC-203-25. A dedicated cable FA409-567- * M is required to connect to the MPC-203-25.

1-1. Systematic chart



2. General Specification

- Operating temperature/humidity range
  - Temperature: 0 ℃ ～ 70 ℃ (When magnet is not used. 0 ℃ ～ 100 ℃)
  - Humidity: 85 %RH or less (Non Condensing)
- Stored temperature range: -10 ℃ ～ 70 ℃(When magnet is not used. -10 ℃ ～ 100 ℃)
- Vibration resistance: 10 ~ 55 Hz double amplitude 1.5 mm
2 hours for each direction of X, Y or Z.
- Outline dimensions: (W)120mm x (H)60 mm x (D)35.4 mm (Excludes protruding parts.)
- Weight: Approx. 300 g (Include magnet.)
- Material of case: SUS430
- Applicable transducer: LSMS-S06 series、LSMSB series
- Applicable amplifier: MPC-203-25

3. Accessories

- Instruction manual: 1 pad

4. Relay Cable (Options)

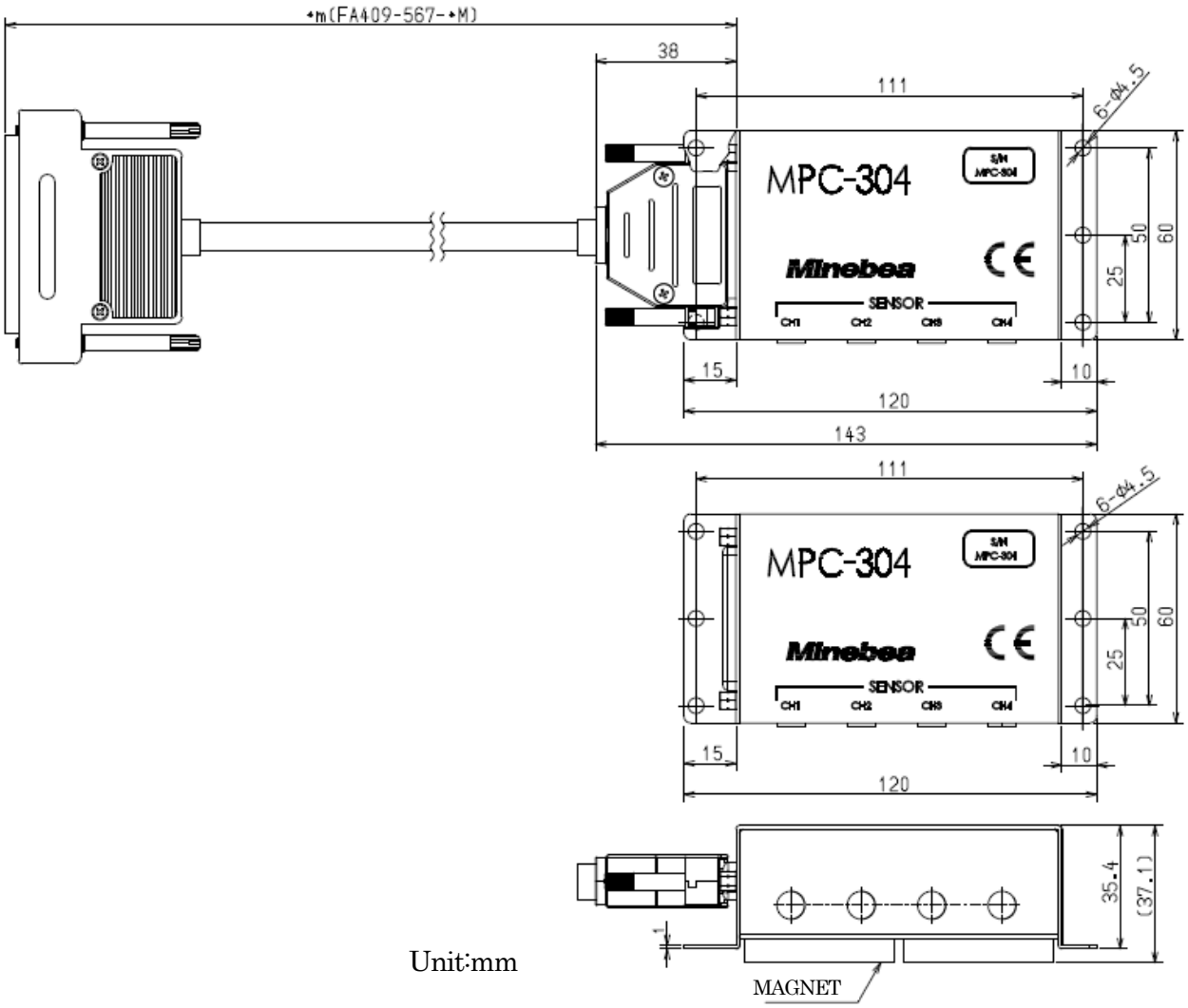
4-1. FA409-567

- Model: FA409-567-2M (Cable length 2m)
FA409-567-5M (Cable length 5m)
FA409-567-10M (Cable length 10m)
- Operating temperature/humidity range
  - Temperature: 0 ℃ ～ 100 ℃ (Connector on amplifier side 0 ℃～50 ℃)
  - Humidity: 85 %RH or less (Non Condensing)
- Stored temperature range: 0 ℃ ～ 50 ℃
(Because operation temperature range of the connector on amplifier side is up to 50℃.)
- Cable outer diameter: Approx. 7.1mm
- Minimam bending radius: 50mm

4-2. FA409-541

- 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 ℃ ～ 100 ℃ (Connector on amplifier side 0 ℃～50 ℃)
  - Humidity: 85 %RH or less (Non Condensing)
- Stored temperature range: 0 ℃ ～ 50 ℃
(Because operation temperature range of the connector on amplifier side is up to 50℃.)
- Cable outer diameter: Approx. 8.3mm
- Minimam bending radius: 50mm

5. Outline dimensions



Unit:mm

* It is possible to fix with screws by the mounting holes on both sides. In that case, please remove the magnet.

6. Conformity standard

- This instrument has suited the following standard.
  EN61326-1: 2013
  [Electrical equipment for measurement, control, and laboratory use - EMC requirements]
  [Immunity test requirements for equipment intended for use in industrial locations]
  EN50581: 2012
  [Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances] (RoHS Directive)

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-203-25

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-203-25.

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-203-25 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.