

SPECIFICATIONS

Transmitter

CSA-522B

Specification No. EN351522B-F 1/4

1. General

The instrument is a transmitter for the application with strain gage applied transducers.

2. Specifications

- Bridge power supply DC10 V \pm 0.3 V within 120 mA (Changeable to DC2.5 V or DC5 V)
- Applicable transducers Strain gage applied transducers(60 ohm to 2 k-ohm) can be connectable.
- Input range 0.35 mV/V to 3.5 mV/V
- Output \pm 10 V or \pm 20 mA output (Not isolated)
- Output load resistance 500 ohm or more
- Sensitivity adjustment range L : 1 000 times, M : 2 000 times, H : 3 000 times
Adjustable from 1/1 to 1/4 on each setting.
- Zero adjustment range \pm 0.6 mV/V
- Non-linearity 0.005 %F.S.
- Temperature coefficient
 - Zero point \pm 0.2 μ V/ $^{\circ}$ C or less (Input conversion)
 - Sensitivity \pm 0.005 %F.S./ $^{\circ}$ C or less
- CALIBRATION 0.25 mV/V \pm 0.000 25 mV/V, 1 mV/V \pm 0.001 mV/V
- Frequency response range 1 Hz or 30 Hz can be changeable (-12 dB/oct bessel type)
25 Hz (-3 dB)
(Either one is selected from 1 Hz or 30 Hz with a dip switch on the internal P.C. board.)
- Current output DC4 mA to 20 mA
(Not isolated, at the time of the voltage output of DC0 V to 10 V)
 - Load resistance 510 ohm or less
 - Non-linearity 0.05 % F.S.
 - Temperature coefficient
 - Zero point \pm 0.01 %F.S./ $^{\circ}$ C or less
 - Sensitivity \pm 0.01 %F.S./ $^{\circ}$ C or less

3. General specifications

- Operating temperature/humidity range
 - Temperature -10 $^{\circ}$ C to 50 $^{\circ}$ C
 - Humidity Less than 85 %RH (Non condensing.)
- Power supply
 - Power supply voltage AC100 V (Permissible variable range AC90 V to AC110 V)
 - Power supply frequency 50/ 60 Hz
 - Power consumption Approx.15 VA
- Insulation resistance DC500 V 100 M-ohm or more between power supply line and case.
- Withstand voltage AC1 500 V for 1 min., between power supply line and case.
- Outline dimensions(W \times H \times D) 49.5 mm x 138 mm x 173.6 mm (Excludes protruding parts.)
- Weight Approx.1.2 kg

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4. Accessories

- Instruction manual 1 piece
- Time lag fuse (1.0 A) 1 piece
- Minus screwdriver 1 piece

5. Options

5-1. Auto-zero

- P/N CSA522B-P99
- Input range of auto-zero ± 2.4 mV/V or less
- Range of auto-zero ± 10 V or less
- Required time for auto-zero approx. 1 s or less
- Accuracy on auto-zero ± 5 mV or less
- Battery back-up time Approx. 10 years (Lithium battery is used.)
- Temperature coefficient
 - Zero point ± 0.005 %F.S./ $^{\circ}$ C or less
 - Sensitivity ± 0.005 %F.S./ $^{\circ}$ C or less

5-2. Power supply voltage

- P/N CSA522B-P61
 - Power supply voltage AC110 V (Permissible variable range AC99 V to AC127 V)
 - Power supply frequency 50/60 Hz
 - Power consumption Approx. 15 VA
- P/N CSA522B-P63
 - Power supply voltage AC200 V (Permissible variable range AC180 V to AC220 V)
 - Power supply frequency 50/60 Hz
 - Power consumption Approx. 15 VA
- P/N CSA522B-P64
 - Power supply voltage AC220 V (Permissible variable range AC198 V to AC253 V)
 - Power supply frequency 50/60 Hz
 - Power consumption Approx. 15 VA

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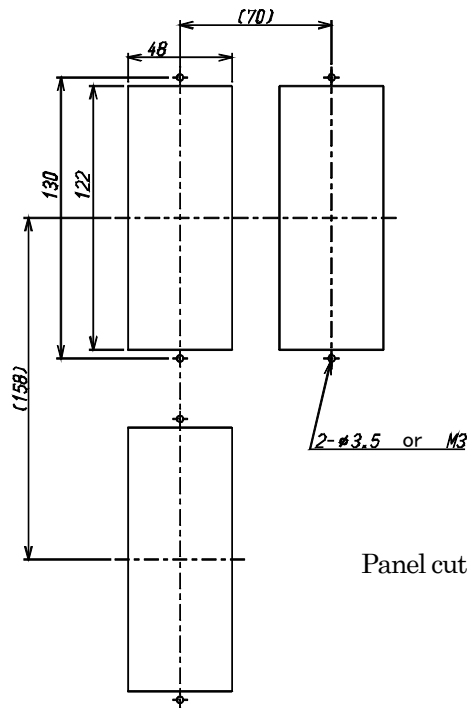
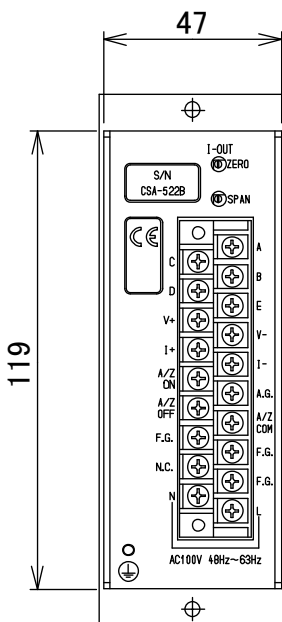
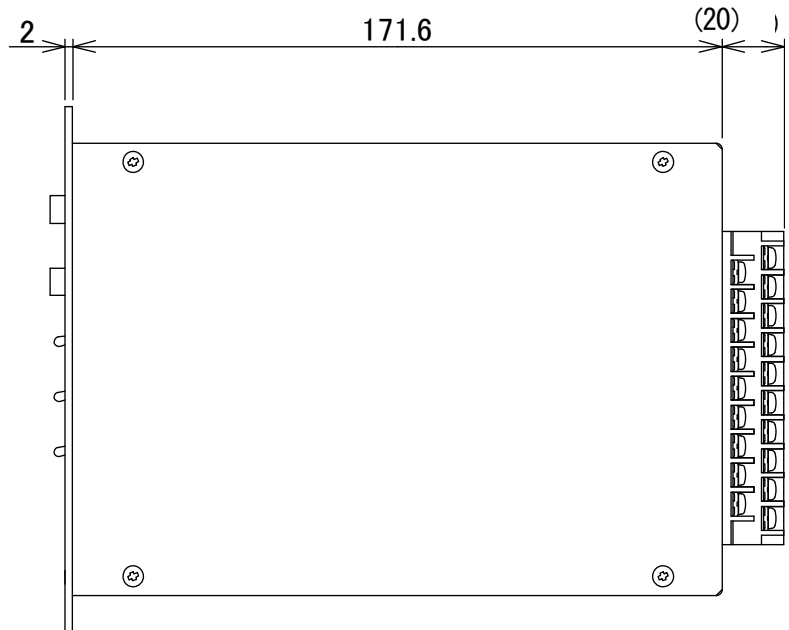
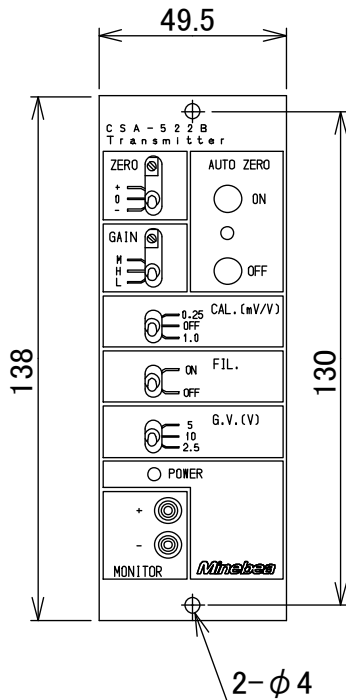
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6. Standard specifications at the time of shipment

- Bridge power supply DC10 V
- Sensitivity 1 000 times (DC10 V output at the input of 1.0 mV/V)
- Frequency response range 30 Hz (-12 dB/oct bessel type), or 25 kHz (-3 dB)

7. Outline dimension



Panel cut size

Unit : mm

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8. CE 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”

EN61010-1:2010

“Safety requirements for electrical equipment for measurement, control and laboratory use
- Part 1: General requirement”

EN50581:2012

“Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances” (RoHS Directive)

The using condition to suit this standard is as follows.

8-1. Place of installation

- Please set up this instrument in the shielded case or control panel where EMC measures are given.

8-2. Wiring

1)Shield processing

- Please make sure to shield all the signal cable by using the shielded cable or using the conduit piping including the storage case and control panel.
- Please make sure to shield the power cable by using the conduit piping including the storage case and control panel.

2)Grounding

- Please make sure to apply the grounding through the case and control panel where EMC measures are given with protective earth terminal.

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.