

SPECIFICATIONS

CSA-591

1/3

Specification No.EN351591-C

Transmitter

1. General

This instrument is a transmitter for one pair of tie bar gages.

2. Specifications

- Bridge power supply DC8 V \pm 0.3 V within 30 mA
- Applied transducers One pair of tie bar gage (350)
- Input range \pm 0.15 mV/V (\pm 300 μ ST) to \pm 1 mV/V (\pm 2 000 μ ST)
- Output voltage \pm 10 V
- Output load resistance 5 k or more
- Zero point adjustment range
 - Course adjustment Approx. \pm 2.5 mV/V (\pm 5 000 μ ST)
Adjustable by 16 steps rotary switch
 - Fine adjustment Approx. \pm 1.5 mV/V (\pm 3 000 μ ST)
Adjustable by coarse/fine adjustment trimmer
- Sensitivity adjustment range
 - Course adjustment Adjustable by 16 steps rotary switch
 - Fine adjustment Adjustable by trimmer
- Non-linearity 0.1 %FS.
- CALIB 0.15 mV/V (300 μ ST) \pm 0.01 mV/V 1 point
- Frequency response range Approx. 100 Hz

3. General specifications

- Operating temperature / humidity range
 - Temperature 0 to 50
 - Humidity 80 %RH or less (Non condensing.)
- Power supply
 - Power supply voltage DC24 V (DC18 V to DC36V)
 - Power consumption Approx. 0.15 A (at DC24 V)
- Outline dimensions (W \times H \times D) 48 mm \times 96 mm \times 131 mm (Excluding protrusion.)
- Weight Approx. 0.5 kg

4. Standard specifications at the shipment

- Sensitivity 10 V output at the input of 0.15 mV/V (300 μ ST)

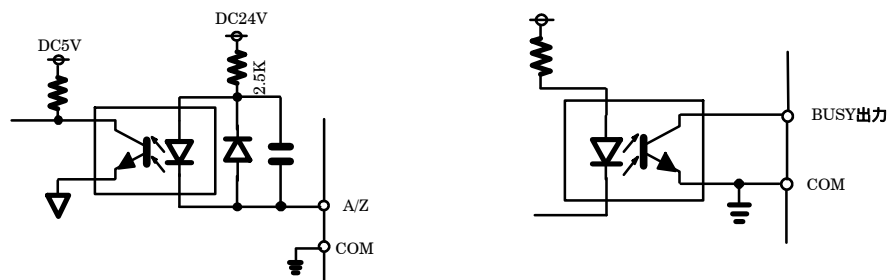
5. Accessories

- Instruction manual 1 piece

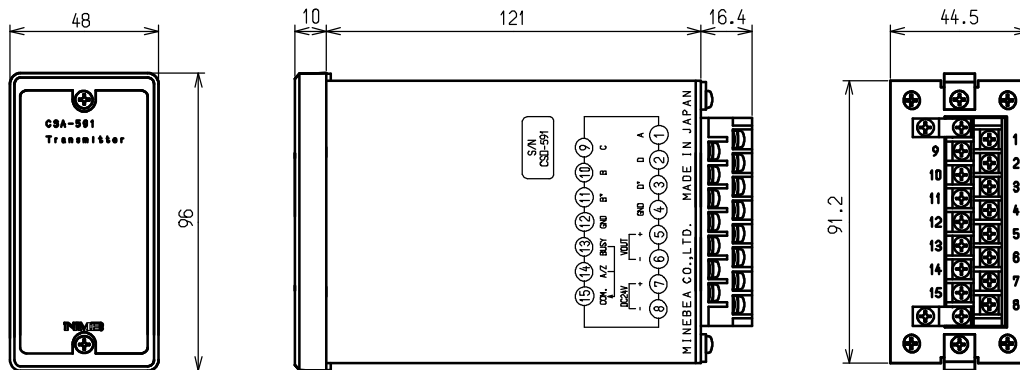
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6. Option (Automatic zero)

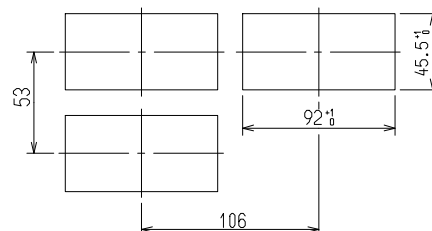
- P/No. CSA591-P99
- Auto zero range Approx. ± 0.5 mV/V ($\pm 1\,000$ μ ST)
- Auto zero required time Within approx. 1 s
- Auto zero accuracy Within ± 20 mV
- Battery backup time 5 years or more at the room temperature (using lithium battery)
- External auto zero 1 point
- BUSY output 1 point output while auto zero operation
Open collector output $V_{ce} = DC30$ V $I_c = DC20$ mA
- External auto zero / BUSY output equivalent circuit



7. Outline dimensions



Panel cut size

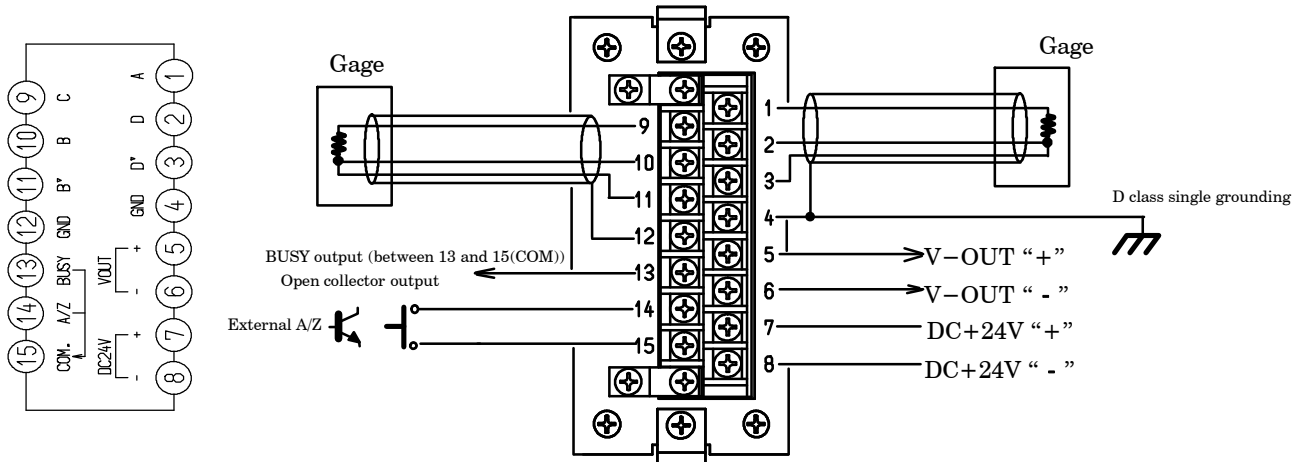


Unit : mm

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8. Connection example

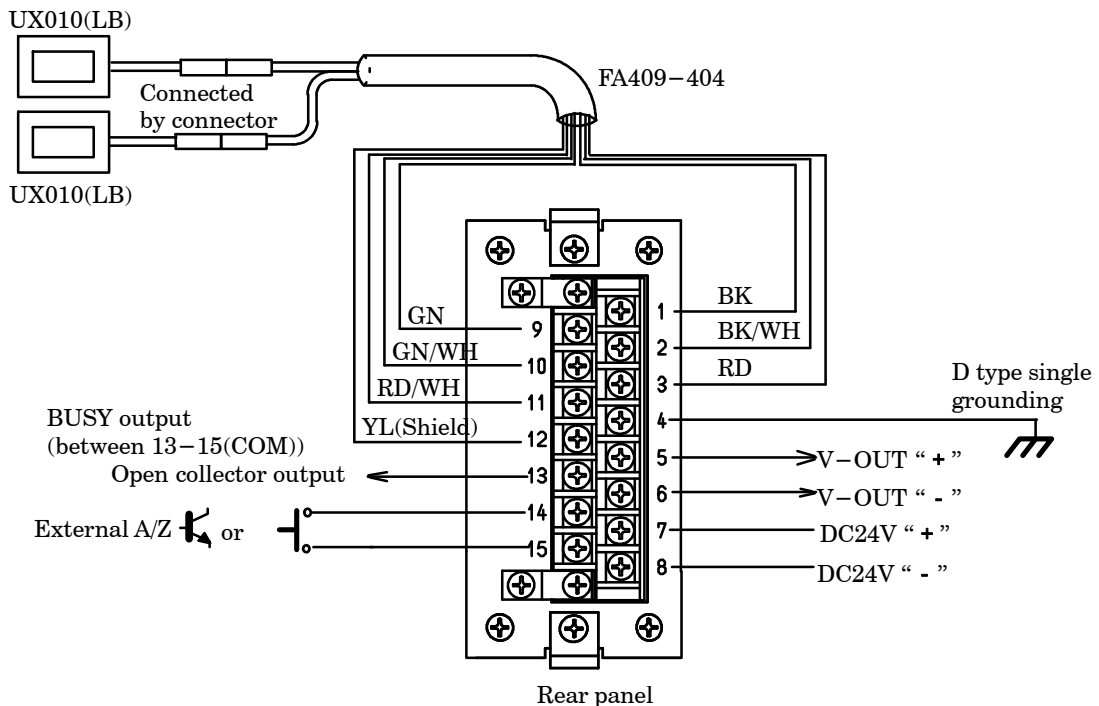
- When tie bar gage (UX010(LB)) is used.



Rear panel

(Shortened between terminal No. 4 and 12 internally.)

- When tie bar gage and extension cable (FA409-404) are used.



Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement.