

SPECIFICATIONS

Transmitter for Torque Transducer

CSA-561B

Spec. No. EN351561B-B

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1. Specifications

- Bridge power supply AC2.0 Vrms sine wave 5 kHz \pm 0.1 kHz
- Applicable transducers Strain gage applied torque transducer
- Input range 0.5 mV/V to 3 mV/V (1 mV/V=2 000 \times 10⁻⁶ strain)
- Output \pm 10 V output
(\pm 0.5 mV/V input, at AC2.0 Vrms of bridge power supply.)
- Output load resistance load resistance 2 k Ω or more
Output load capacity 0.1 μ F or less
- Zero point adjustment range \pm 2.5 mV/V
 - Coarse adjustment Automatic balance
 - Fine adjustment Zero adjustment trimmer
 - Resistance section Approx. 1 % (\pm 2.5 mV/V),
 - Capacitance section Up to 2 000pF is possible.
 - Automatic balancing time Approx. 1 s
 - Accuracy \pm 0.2 %F.S.
 - Back-up time 24 h or more
- Linearity 0.05 %F.S.
- Effect due to temperature variation
 - Zero point \pm 0.1 μ V/ $^{\circ}$ C (Input conversion)
 - Sensitivity Within \pm 0.05 %F.S./ $^{\circ}$ C
- Calibration Setting with digital switch (0 to \pm 9 999 \times 10⁻⁶ strain)
 - Accuracy \pm 0.5 %
- Frequency response range DC to 2 kHz (Filter: W/B)
(1 Hz, 10 Hz, 100 Hz, 300 Hz, 1 kHz or W/B changeable)
10 Hz to W/B: +1 dB -3 dB \pm 1 dB, 1 Hz : +1 dB -3 dB \pm 3 dB,
- Display Output voltage display 0 to \pm 10.000 Digital display (Green LED)
Sampling speed Approx. 4 times/s
- ERROR function When the output reaches to out of the range of warranty on linearity.
(+10 V or more or -10 V or less), the display flashes 0.000 or -0.000 on and off and also ERROR will be shown.
(Photocoupler output)
- Remote function Automatic balance \pm CALIB
- LOCK function Automatic balance Prohibits the operation of \pm CALIB
(including \pm CALIB of Automatic balance for remote sensing.)

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2. General specifications

- Operating temperature/humidity range
 - Temperature $-10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$
 - Humidity 85 %RH or less (Non condensing.)
- Power supply
 - Power supply voltage AC100 V \pm 0 V
 - Power supply frequency 50/ 60 Hz
 - Power consumption Approx. 10 VA (at AC100 V)
- Withstand voltage
 - Between power supply and each input terminal (A, B, C, D)
AC1 000 V for 1 min
 - Between the output and case, and between the each input
terminal
(A, B, C, D, E) AC250 V for 1 min
- Outline dimensions(W×H×D) 42 mm × 176 mm × 284.4 mm (Excluding protrusion.)
- Weight Approx. 1.5 kg

3. Standard specifications at the shipment

- Bridge power supply AC2 V rms
- Sensitivity 10 V output at 1 mV/V input
(4 mA to 20 mA with optional P07 is attached.)
- Frequency response range 10 Hz

4. Accessories

- Instruction manual 1 piece
- Fuse 1 piece
- Power supply cable
(FA409-482-2M) 1 piece
- Minus driver 1 piece

5. Options

5-1. Current output

- P/N CSA561B-P07
- Output 4 mA to 20 mA
- Load resistance 510 Ω or less
- Linearity $\pm 0.05\%$ F.S or less

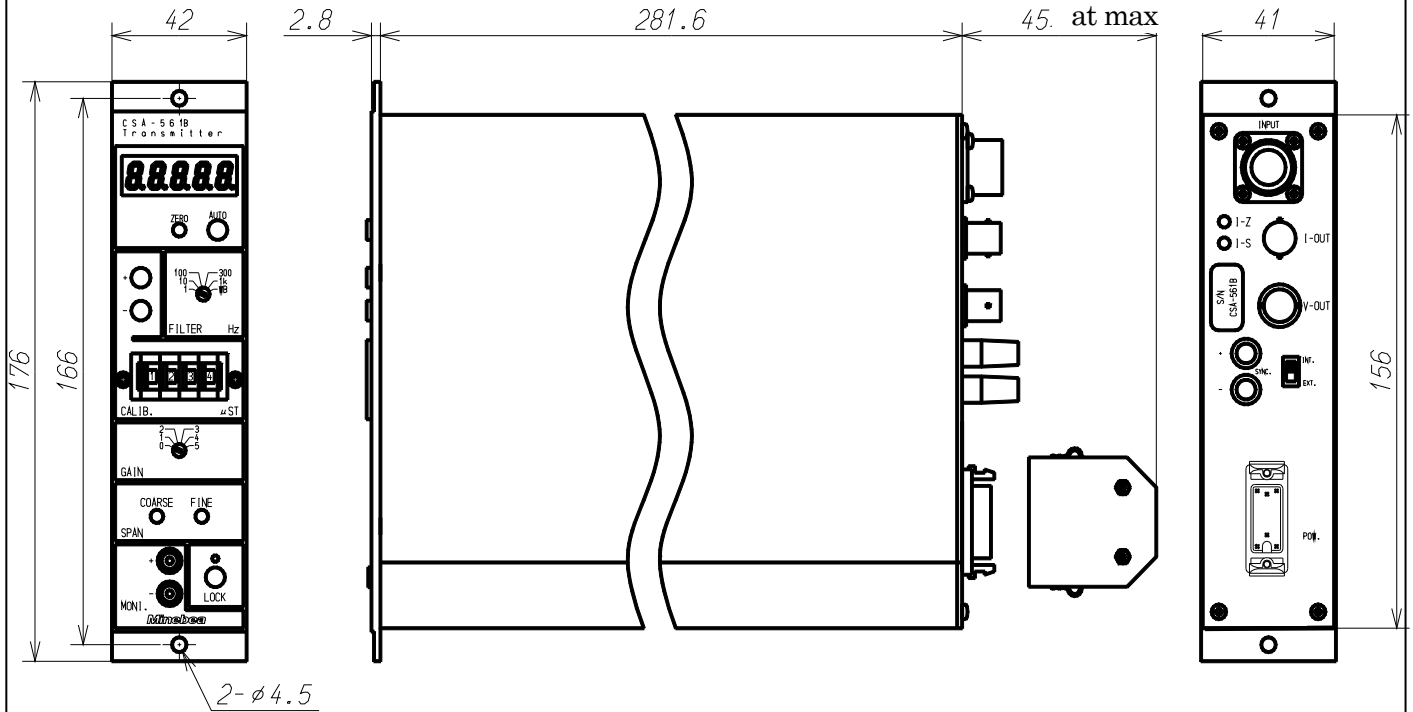
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6. Outline dimensions



Panel cut dimensions

Unit : mm

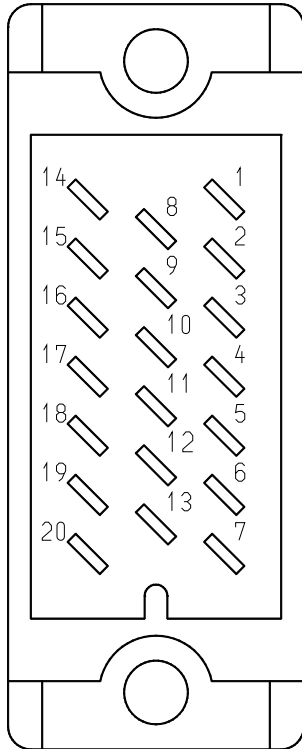
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7. Connector pin configuration (View from the rear panel)



Pin No.	Function	
1	-CALIB	Input
2,3	GND	
4,5	Auto balance	Input
6,7	COM1	
8,9	AC power supply	
12,13	AC power supply	
14	BUSY	Output
15	ERROR	Output
16,17	COM2	
18,19	Synchronous terminal (SYNC)	Input・Output
20	+CALIB	Input

※COM1 is applied for the common of -CALIB, +CALIB, Auto Balance and Synchronous terminal.

※COM2 is applied for the common of BUSY and ERROR.

※The terminals with plural pin number is short-circuited internally.

※The connector model on rear panel

Connector : MR-20MW (Made by HONDA TSUSHIN KOGYO)
 Mounting attachment : MR-R4+ (Made by HONDA TSUSHIN KOGYO)

※The connector model on attached power supply cable

Connector : MR-20F (Made by HONDA TSUSHIN KOGYO)
 Case : MR-20L+ (Made by HONDA TSUSHIN KOGYO)

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