

Digital transmitter CSD-594

2023/10/05

Features



- Compact size, High speed digital output (Baud rate : 921.6 kbps)
- The parallel connection is possible by 16 or less.

Specification

Specification name	Specification contents
Bridge power supply	5 VDC±0.25 VDC, within 45 mA
Measuring target	Vector sensor
Input range	Fx / Fy : ±300 ×10 ⁻⁶ strain ~ ±5 000 ×10 ⁻⁶ strain Fz : ±300 ×10 ⁻⁶ strain ~ ±1 000 ×10 ⁻⁶ strain
Adjustment range of zero point	±100 % of the rated output of the vector sensor
Digital output	Serial data (Differential output)
Non-linearity	±0.05 %F.S.
Temp. characteristics	Zero point ±2 μV/°C, Sensitivity ±0.05 %/°C
Frequency response	Approx. 100 Hz
	RS-485 conforming (RS-422 conforming is selectable by the order.) Baud rate : 921.6 kbps Data bit length : 8 bit Parity bit : No Start bit : 1 bit

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Specification of the interface	<p>Stop bit : 1 bit</p> <p>Transmission method : Half duplex</p> <p>Address : 0 ~ F (Numbers of connection for sleeve : 16 at max.)</p> <p>Internal termination</p> <p>(Presence has been selected by the terminal block connection.)</p> <p>Response : Approx. 0.5 ms (Master -> Sleeve -> Master)</p>
Command	<p>Measuring mode : Start of data output, Stop of data output, A/Z, A/Z OFF</p> <p>Function mode : Filter setting, Polarity change of output</p> <p>Parameter mode : Load range, Address registration</p> <p>Calibration mode : Calibration of each rectilinear force for Fx, Fy and Fz at zero and span.</p>
Operating temp. / humidity range	-10 °C ~ 50 °C, 85 %RH r less (Non condensing)
Power supply	5 VDC (4.8 VDC ~ 5.5 VDC), Approx. 2.5 W or less (at 5 VDC)
Outline dimensions (WxHxD)	60 x 80 x 30 mm
Weight	Approx. 220 g

Options

[Vector sensor MX020 series](#)