



IP251

Universal SSI - RS232 signal converter for operation with absolute SSI Sensors and Encoders

Product Features:

- Converts SSI data as well as serial data to parallel binary, Gray oder BCD data format
- Linearization facilities by freely programmable in-/output curves
- Additional facilities like bit-blanking, round-loop-operation etc.
- Parallel output 25 bits (push-pull, short circuit proof)
- RS232 interface for serial readout of the sensor data
- SSI: Master or Slave operation
- 18 to 30 VDC power supply

Technical Specifications:		
Power supply:	Input voltage: Protection circuit: Ripple: Consumption: Connections:	18 ... 30 VDC reverse polarity protection ≤ 10 % at 24 VDC approx. 200 mA screw terminals, 1.5 mm ² / AWG 16
Encoders / sensors:	Usable types: Interface: Encoder supply:	absolute encoders (single-turn, multi-turn or comparable) SSI (6 ... 25 Bit binary- or Gray code) external input necessary, voltage depends on the used encoder type
SSI input:	Input format: Frequency range: Standard resolutions: SSI interval time: Operational modes: Connections:	TTL differential, RS422-standard 100 Hz ... 1 MHz 13, 21 or 25 Bit (selectable) min. 4 x clock master or slave (selectable) screw terminals, 1.5 mm ² / AWG 16
Control input:	Input logic Signal levels: Function: Signal delay time: Internal resistance: Connections:	PNP, active high / low (reversible via PC) LOW: 0 ... 3 V, HIGH: 10 ... 30 V hold approx. 500 µs Ri ≈ 5 kOhm screw terminals, 1.5 mm ² / AWG 16
Parallel output:	Output format: Resolution: Signal levels: Output current: Internal resistance: Protection circuit: Connections:	Binary, Gray or BCD 25 bit 0 ... 35 V * (external input at COM+ required) max. 20 mA (at 24 V) Ri ≈ 600 Ohm *) short circuit proof up to max. 27 V COM+: screw terminals, 1.5 mm ² / AWG 16 outputs: 25-pin SUB-D connector (female)
Serial interface:	Format: Baud rate (selectable): Operation modes: Connections:	RS232 or RS485 (selectable) 600, 1200, 2400, 4800, 9600 (default), 19200, 38400 Baud PC or printer mode 9-pin SUB-D connector (female)
Housing:	Material: Mounting: Dimensions (w x h x d): Protection class: Weight:	plastic 35 mm top hat rail (according to EN 60715) 40 x 79 x 91 mm / 1.5748 x 3.1102 x 3.5827 inch IP20 approx. 190 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Failure rate:	MTBF in years:	65.6 a (long-term usage at 60 °C / 140 °F)
Conformity & standards:	EMC 2014/30/EU: RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1 EN IEC 63000