



## IV251

Signal converter: SSI → analog and serial with absolute encoders and sensors

### Product Features:

- Selectively operation as Master or Slave
- For absolute encoders up to 25 bits
- Scalable analog output for current or voltage operation, proportional to the sensor signal
- Serial RS232 / RS485 interface for serial readout of the encoder data
- Easy programmable by Teach function or PC with operator surface
- Linearization facilities by freely programmable input-output curves
- Additional facilities as bit-blanking, round-loop-operation etc.
- Auxiliary voltage output 5 VDC for sensor supply
- Power supply 18 to 30 VDC

Technical Specifications:		
<b>Power supply:</b>	Input voltage: Protection circuit: Ripple: Consumption: Connections:	18 ... 30 VDC reverse polarity protection ≤ 10 % at 24 VDC approx. 170 mA (unloaded) screw terminal, 1.5 mm <sup>2</sup> / AWG 16
<b>Sensor supply:</b>	Output voltage: Output current:	+ 5.5 VDC max. 150 mA
<b>SSI interface:</b>	Inputs (SSI, TTL): Frequency range: Resolution: SSI interval time: Connections:	TTL differential, RS422 100 Hz ... 1 MHz 13, 21 or 25 Bit min. 4 x clock screw terminal, 1.5 mm <sup>2</sup> / AWG 16
<b>Control input:</b>	Input logic: Signal levels: Function: Pulse time (Set): Internal resistance: Connections:	PNP, active high HTL: LOW: 0 ... 3 V, HIGH: 10 ... 30 V set/preset min. 10 ms R <sub>i</sub> ≈ 5 kOhm screw terminal, 1.5 mm <sup>2</sup> / AWG 16
<b>Analog output:</b>	Voltage output: Current output: Resolution: Accuracy: Stabilization time: Connections:	-10 ... +10 V / 0 ... 10 V (max. 2 mA) 0 ... 20 mA / 4 ... 20 mA (burden: max. 270 Ohm) 14 Bit (± 13 Bit) 0.1 % 2 ms screw terminal, 1.5 mm <sup>2</sup> / AWG 16
<b>Serial interface:</b>	Format: Baud rate (selectable): Operation modes: Connections:	RS232 or RS485 (selectable) 600, 1200, 2400, 4800, 9600 (default), 19200, 38400 Baud PC or printer mode SUB-D connector (female), 9-pin
<b>Housing:</b>	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
<b>Ambient temperature:</b>	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
<b>Failure rate:</b>	MTBF in years:	65.6 a (long-term usage at 60 °C / 140 °F)
<b>Conformity and standards:</b>	EMC 2004/108/EC: RoHS 2011/65/EU:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 50581