



## Interface type SV210

Signal splitter and incremental converter for SinCos encoders

### Product Features:

- Encoder inputs SIN+, SIN-, COS+, COS-, REF+, REF- with 1 Vpp format
- Two sine-cosine output channels with the same signal format
- Two incremental outputs, each with differential signal format A, /A, B, /B, Z, /Z, individually adjustable to either TTL/RS422 level or HTL (10 to 30 V) level
- Suitable for input frequencies up to 500 kHz
- 5 V or 24 V encoder supply (switchable)
- 17 to 30 VDC power supply

Technical Specifications:		
<b>Power supply:</b>	Input voltage: Protective circuit: Consumption: Connections:	17 ... 30 VDC (Ripple $\leq$ 10 % at 24 VDC) polarity protection ca. 70 mA (unloaded) screw terminal, 1.5 mm <sup>2</sup> / AWG 14
<b>Encoder supply:</b>	Output voltage:  Output current: Connections:	5.2 VDC (internally generated) or 5 ... 30 VDC (external connection) max. 150 mA SUB-D connector (male), 9-pin
<b>SinCos inputs:</b>	Amplitude: Offset: Channels: Frequency: Terminating resistors: Connections:	0.8 ... 1.2 Vpp 2 ... 3 VDC SIN+, SIN-, COS+, COS-, REF+, REF- max. 500 kHz 120 Ohm (integrated) SUB-D connector (male), 9-pin
<b>SinCos outputs:</b>	Number of outputs: Amplitude: Offset: Channels: Terminating resistors: Connections:	2 0.8 ... 1.2 Vpp ca. 2.5 VDC SIN+, SIN-, COS+, COS-, REF+, REF- 120 Ohm (must be equipped with the target device) SUB-D connector (female), 9-pin
<b>Incremental outputs:</b>	Number of outputs: Signal levels: Channels: Output current: Output logic: Signal running time: Protection: Connections:	2 RS422 / TTL or HTL (max. 30 V) A, /A, B, /B, Z, /Z max. 30 mA (per channel) push-pull ca. 200 ns short circuit proof screw terminal, 1.5 mm <sup>2</sup> / AWG 14
<b>Housing:</b>	Material: Mounting: Dimensions (w x h x d): Protection class: Weight:	plastic 35 mm top hat rail (according to EN 60715) 22.5 x 102 x 102 mm / 0.886 x 4.016 x 4.016 inch IP20 ca. 100 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:	70.5 a (long-term usage at 60 °C / 140 °F )
<b>Conformity &amp; standards:</b>	EMC 2004/108/EC: Guideline 2011/65/EU:	EN 61000-6-2, EN 61000-6-3, EN 61000-3-4 RoHS-conform