



## GV210

Encoder distributor, cross switcher and splitter for incremental encoder signals

### Product Features:

- Universal encoder interface, applicable as level converter, encoder splitter and encoder cross switch
- Two encoder inputs (A, /A, B, /B, Z, /Z), adjustable either to HTL, TTL or RS422 level
- Suitable for quadrature, symmetrical, asymmetrical as well as single channel signals
- Two signal outputs (A, /A, B, /B, Z, /Z), adjustable either to HTL, TTL or RS422 level
- Contactless and bounce-free switch-over between the encoder channels, by remote control signals
- Auxiliary output 5 VDC for encoder supply
- High frequency range up to 1 MHz

Technical Specifications:		
<b>Power supply:</b>	Input voltage: Protection circuit: Ripple: Consumption: Connections:	12 ... 30 VDC reverse polarity protection ≤ 10 % at 24 VDC approx. 50 mA (unloaded) screw terminal, 1.5 mm <sup>2</sup> , AWG 16
<b>Encoder supply:</b>	Output voltages: Output current: Protection: Connections:	5.2 VDC and 10 ... 28 VDC (approx. 2 VDC lower than input voltage) max. 125 mA short-circuit proof screw terminal, 1.5 mm <sup>2</sup> , AWG 16
<b>Incremental inputs:</b>	Number of inputs: Signal levels:  Channels: Frequency: Internal resistance: Connections:	2 adjustable to TTL / RS422 (differential signal > 1 V) or HTL (10 ... 30 V)  symmetrical: A, /A, B, /B, Z, /Z      asymmetrical: A, B, Z symmetrical: max. 1 MHz                  asymmetrical: max. 250 kHz R <sub>i</sub> ≈ 4.7 kOhm screw terminal, 1.5 mm <sup>2</sup> , AWG 16
<b>Control inputs:</b>	Number of inputs: Application: Levels: Connections:	2 contactless and bounce-free signal switchover HTL, PNP (10 ... 30 V) screw terminal, 1.5 mm <sup>2</sup> , AWG 16
<b>Incremental outputs:</b>	Number of outputs: Output level: Channels: Output current: Output circuit: Signal propagation delay: Protection: Connections:	2 adjustable to TTL / RS422 or HTL (Input voltage minus approx. 2 V) A, /A, B, /B, Z, /Z max. 30 mA (per output) push-pull approx. 600 ns short-circuit proof screw terminal, 1.5 mm <sup>2</sup> , AWG 16
<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 / 0.885 x 4.016 x 4.016 inch IP20 approx. 100 g
<b>Temperature range:</b>	Operation: Storage:	-20° - +60° C / -04° - +140° F (not condensing) -30° - +75° C / -22° - +167° F (not condensing)
<b>Failure rate:</b>	MTBF in years:	146.4 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