



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:		
Power supply:	Input voltage:	12 ... 30 VDC
	Protection circuit:	reverse polarity protection
	Ripple:	≤ 10 % at 24 VDC
	Consumption:	approx. 50 mA (unloaded)
	Connections:	screw terminal, 1.5 mm ² , AWG 16
Encoder supply:	Output voltages:	5.2 VDC and 10 ... 28 VDC (approx. 2 VDC lower than input voltage)
	Output current:	max. 125 mA
	Protection:	short-circuit proof
	Connections:	screw terminal, 1.5 mm ² , AWG 16
Incremental inputs:	Number of inputs:	2
	Signal levels:	adjustable to TTL / RS422 (differential signal > 1 V) or HTL (10 ... 30 V)
	Channels:	symmetrical: A, /A, B, /B, Z, /Z asymmetrical: A, B, Z
	Frequency:	symmetrical: max. 1 MHz asymmetrical: max. 250 kHz
	Internal resistance:	R _i ≈ 4.7 kOhm
	Connections:	screw terminal, 1.5 mm ² , AWG 16
Control inputs:	Number of inputs:	2
	Application:	contactless and bounce-free signal switchover
	Levels:	HTL, PNP (10 ... 30 V)
	Connections:	screw terminal, 1.5 mm ² , AWG 16
Incremental outputs:	Number of outputs:	2
	Output level:	adjustable to TTL / RS422 or HTL (Input voltage minus approx. 2 V)
	Channels:	A, /A, B, /B, Z, /Z
	Output current:	max. 30 mA (per output)
	Output circuit:	push-pull
	Signal propagation delay:	approx. 600 ns
	Protection:	short-circuit proof
	Connections:	screw terminal, 1.5 mm ² , AWG 16
Housing:	Material:	plastic
	Mounting:	35 mm top hat rail (according to EN 60715)
	Dimensions (w x h x d):	22.5 x 102 x 102 mm / 0.885 x 4.016 x 4.016 inch
	Protection class:	IP20
	Weight:	approx. 100 g
Temperature range:	Operation:	-20° - +60° C / -04° - +140° F (not condensing)
	Storage:	-30° - +75° C / -22° - +167° F (not condensing)
Failure rate:	MTBF in years:	146.4 a (long-term usage at 60 °C / 140 °F)
Conformity and standards:	EMC 2004/108/EC:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
	RoHS 2011/65/EU:	EN 50581