Data Sheet

PU202

Level converter & encoder signal generator without potential separation

Product Features:

- Converts HTL signals from 10 up to 30 V (A / B / Z) into the corresponding TTL / RS422 format (the inverted channels included)
- Further different standards of direction signals can be converted into a 90° phase shifted A/B square wave signal
- Open PCB version with plastic-housing for a simple snapping onto top hat rails according to EN 60715
- Input frequency max. 200 kHz
- 5 VDC power supply

Technical Specifications:		
Power supply:	Input voltage:	5 VDC +/- 10 %
	Protection:	reverse polarity protection and fuse (0, 315 A medium time lag)
	Ripple:	≤ 10 %
	Consumption:	approx. 50 mA (unloaded)
	Connections:	selectively by 1,5 mm² / AWG 16 screw terminal or 9-pin male SUB-D connector
Encoder supply:	Only external voltage:	The external supplied voltage is looped-trough and available at the male SUB-D connector (no fragmentation necessary).
Incremental input:	Levels:	HTL (10 … 30 V)
	Input logic:	PNP
	Internal resistance:	Ri ≈ 10 kOhm
	Channels:	A, B, Z
	Frequency:	max. 200 kHz
	Connections:	male SUB-D connector, 9-pin
Incremental output:	Levels:	5 V-TTL / RS-422
	Channels:	A, /A, B, /B, Z, /Z
	Output current:	max. 20 mA per channel
	Signal delay:	approx. 800 ns
	Connections:	female SUB-D connector, 9-pin
Housing:	Material:	plastic
	Mounting:	35 mm top hat rail (according to EN 60715)
	Dimensions (w x h x d):	78 x 90 x 70 mm / 3.071 x 3.543 x 2.756 inch
	Protection class:	IP20
	Weight:	approx. 100 g
Ambient temperature:	Operation:	0 °C … +45 °C / +32 … +113 °F (not condensing)
	Storage:	-25 °C … +70 °C / -13 … +158 °F (not condensing)
Failure rate:	MTBF in years:	83.1 a (long-term usage at 60 °C / 140 °F)
Conformity & standards:	EMC 2014/30/EU:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1
	RoHS (II)	
	2011/65/EU	EN IEC 63000
	RoHS (III) 2015/863:	

Pulse Diagram: