



PU210

Universal level converter with potential separation

Product Features:

- Level converter, potential separator and direction signal decoder for incremental encoder signals
- Signal 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
- Signal outputs (A, /A, B, /B, Z, /Z), adjustable either to HTL, TTL or RS422-level
- Conversion of a 90° A/B quadrature direction signal to a static direction output and vice-versa
- Encoder connection alternatively via SUB-D-connectors or parallel screw terminal strips
- Potential separation between input and output
- High frequency range up to 500 kHz

Technical Specifications:		
Power supply:	Input voltage: Protection circuit: Ripple: Consumption: Connections:	5 ... 30 VDC reverse polarity protection ≤ 10 % at 24 VDC approx. 50 mA (unloaded) screw terminal, 1.5 mm ² / AWG 16
Encoder supply:	Only external:	an external voltage can be connected at the screw terminal and is then available at the 9 pin male SUB-D connector
Incremental input:	Level: Channels: Frequency: Internal resistance: Connections:	selectable: TTL / RS422 (differential voltage > 1 V) or HTL (10 ... 30 V) symmetrical: A, /A, B, /B, Z, /Z asymmetrical: A, B, Z symmetrical: max. 500 kHz asymmetrical: max. 300 kHz (HTL) Ri ≈ 10 kOhm screw terminal, 1.5 mm ² / AWG 16 or SUB-D (male), 9-pin
Incremental output:	Level: Channels: Output current: Output circuit: Signal propagation delay: Connections:	Input voltage minus approx. 2 V A, /A, B, /B, Z, /Z max. 30 mA (per channel) Push-Pull approx. 600 ns screw terminal, 1.5 mm ² / AWG 16 or SUB-D (male), 9-pin
Housing:	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 IP20 approx. 100 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Failure rate:	MTBF in years:	71.8 a (long-term usage at 60 °C / 140 °F)
Conformity and standards:	EMC 2014/30/EU: RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1 EN IEC 63000