



## 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:		
<b>Power supply:</b>	Input voltage: Protection: Ripple: Consumption: Connections:	5 VDC +/- 10 % reverse polarity protection and fuse (0, 315 A medium time lag) ≤ 10 % approx. 50 mA (unloaded) selectively by 1,5 mm <sup>2</sup> / AWG 16 screw terminal or 9-pin male SUB-D connector
<b>Encoder supply:</b>	Only external voltage:	The external supplied voltage is looped-through and available at the male SUB-D connector (no fragmentation necessary).
<b>Incremental input:</b>	Levels: Input logic: Internal resistance: Channels: Frequency: Connections:	HTL (10 ... 30 V) PNP R <sub>i</sub> ≈ 10 kOhm A, B, Z max. 200 kHz male SUB-D connector, 9-pin
<b>Incremental output:</b>	Levels: Channels: Output current: Signal delay: Connections:	5 V-TTL / RS-422 A, /A, B, /B, Z, /Z max. 20 mA per channel approx. 800 ns female SUB-D connector, 9-pin
<b>Housing:</b>	Material: Mounting: Dimensions (w x h x d): Protection class: Weight:	plastic 35 mm top hat rail (according to EN 60715) 78 x 90 x 70 mm / 3.071 x 3.543 x 2.756 inch IP20 approx. 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:	83.1 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 61000-6-4 RoHS-conform

### Pulse Diagram:

