DKZU31474

Incremental Counter Module
With Analogue Output and Serial Interface

- Counter suitable for quadrature signals (A/B, 90°) as well as single channel inputs
- Counting inputs selectable to TTL/ RS422 format or to HTL / 10-30 volts format
- Maximum counting frequency 1 MHz
- Analogue outputs +/-10 V, 0-20 mA and 4-20 mA, polarity following the sign of the internal counter
- Analogue conversion time 1 msec only
- RS 232 and RS 485 interfaces for serial readout of the counter
- Also suitable for conversion of the sum or the difference of two separate counts
- Facility for free linearization of the analogue output by 16 interpolation points
- Easy to set up by TEACH procedure, or by PC and Windows software

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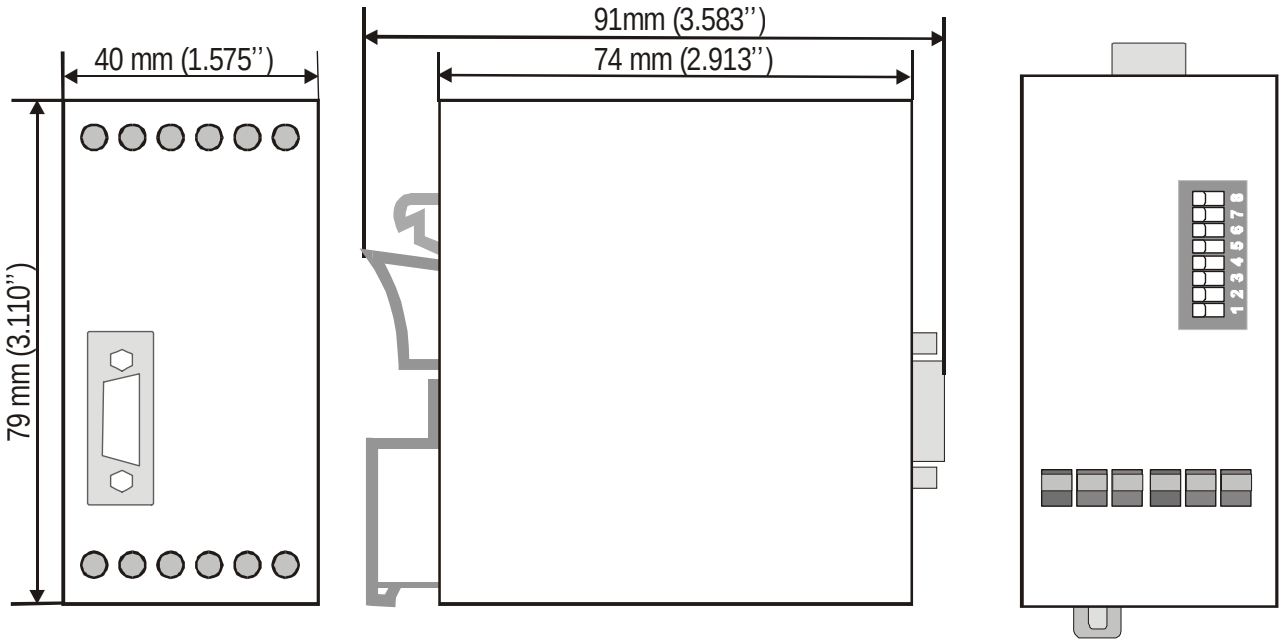
1. Dimensions



Front view Side view Top view

2. Technical Specifications

Power Supply	:	18...30 VDC
Power consumption	:	approx. 85 mA at 18 V approx. 60 mA at 30 V (+5.5V uncharged)
Encoder supply	:	+5.5V +/- 5% (max. load: 250mA)
Inputs (RS422/TTL differential)	:	RS422 compatible (differential level min. 1 V) or TTL differential, f_{max} = 1 MHz
Inputs TTL single-ended	:	LOW < 0.5V, HIGH > 2.5V, f_{max} = 200 kHz
Inputs HTL single-ended	:	LOW < 3V, HIGH > 10V, f_{max} = 200 kHz, (Ri=4,75 kOhm)
Input „Control“	:	LOW < 3V, HIGH > 10V, min. pulse duration 3 msec.
Analogue outputs	:	+/- 10 V (> 5 kOhm) 0-20 mA / 4-20 mA (< 270 Ohm)
Step width of analogue outputs	:	1.25 mV / 2.5 µA
Analogue resolution	:	14 bits (+ 10V / +20mA ... -10V/ -20mA)
Accuracy of analogue output	:	0.1% +/- 1 digit
Response time counter => analogue (normal operation):	:	approx. 1 msec
Reset time of the analogue output upon external reset command	:	1 msec
Temperature range	:	Operation: 0° ... +45°C (+32 ... +113°F) Storage: -25° ... +70°C (-13 ... +158 °F)
Weight	:	approx. 190 g
Conformity and standards	:	EMC 2004/108/EC: EN 61000-6-2 EN 61000-6-3