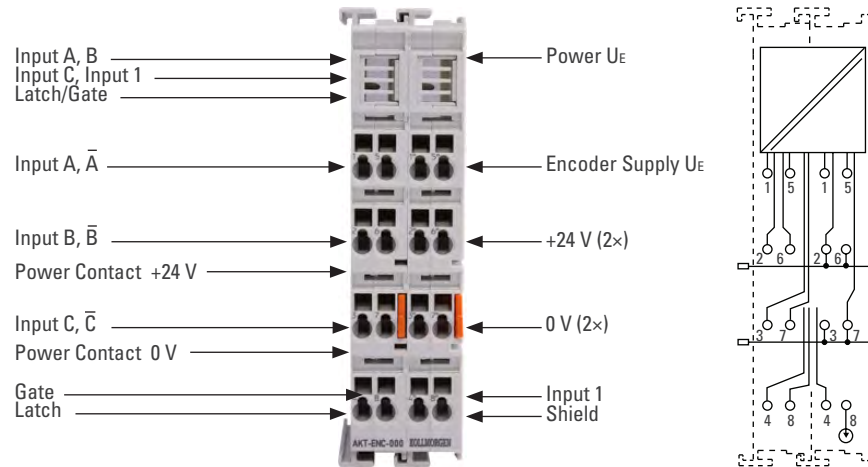


Incremental Encoder Inputs

The AKT-ENC-000 terminal is an interface for the direct connection of incremental encoders with difference signal (RS485) or with single inputs. A 16 bit counter with a quadrature decoder and a 16 bit latch for the zero pulse can be read, set or enabled. Incremental encoders with alarm outputs can be connected at the interface's status input. Interval measurement with a resolution of 200 ns is possible. The G2 input allows the counter to be halted (high = stop). The value is read with a rising edge at G1.



Electrical and Mechanical Specification	AKT-ENC-000-000
Encoder connection	A, A (inv), B, B (inv), zero, zero (inv), difference signal (RS485); status input
Encoder operating voltage	5 V DC
Encoder output current	0.5 A
Counter	16 bits, binary
Limit frequency	4 million increments (with 4-fold evaluation)
Quadrature decoder	1-, 2-, or 4-fold evaluation
Zero-pulse latch	16 bits
Commands	Read, set, enable
Supply voltage	24 V DC (-15 %/+20 %)
Current consumption power contacts	25 mA
Bit width in the process image	Input: 1 x 16 bit data, 1 x 8 bit control/status
Weight	Approx. 85 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	Conforms to EN 60068-2-6/EN 60068-2-27/29
EMC immunity/emission	Conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Pluggable wiring	For all Bus Terminals

203A West Rock Road • Radford, VA 24141 USA • Phone: 1-540-633-3545