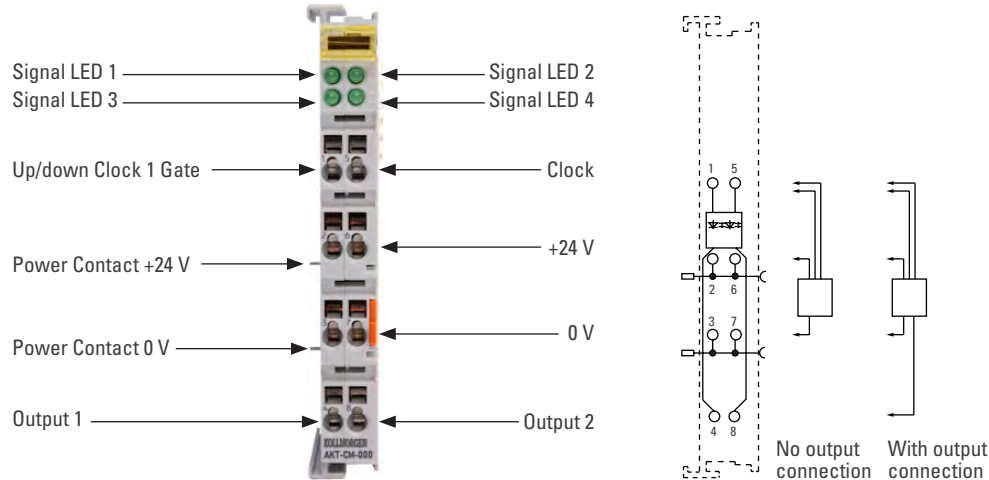


Counter Module, Up/Down

The up/down counter counts binary pulses, and transmits the counter state, in an electrically isolated form, to the higher-order automation device. Using the up/down input, the (32 bit) counting direction of the Bus Terminal can be changed. The gate connection can be used to control the triggering. Using the clock1 input, it is possible to implement two (16 bit) counters. The Bus Terminal contains two inputs that indicate their signal state by means of light emitting diodes. Both outputs are switched conform to the counter state, so that they can be used as fast control signals for field devices.



Electrical and Mechanical Specification	AKT-CM-000-000
Number of counters	1 or 2
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V
"1" signal voltage	15...30 V
Counting frequency	100 kHz (2 kHz for switching between up and down)
Counter depth	32 bits
Input current	Typ. 5 mA
Max. output current	Typ. 50 mA
Electrical isolation	500 V _{rms} (standard-bus/field potential)
Bit width in the process image	40 inputs/outputs: 32 bit data, 8 bit control/status
Configuration	No address setting, configuration via Bus Coupler or controller
Weight approx.	50 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

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