



IP1502-Bxxx | 2-channel up/down counter 24 V DC, 100 kHz

The counter module has two fast counters running at up to 100 kHz. It counts binary pulses, and transmits the counter state to the higher-level automation unit. The up/down input allows the counters to be switched between upwards and downwards counting (in 32 bits). The gate signals (gate inputs) allow the counters to be triggered: depending on the level at the gate input, the counting function is halted or enabled. The outputs can be switched according to the counter state and therefore be used as fast control signals for field devices. From the controller it is possible to set the counter state, to start or halt the counter function, and to set the outputs. The module shows the states of the input and output signals by means of light emitting diodes.

Technical data	IP1502-Bxxx
Specification	EN 61131-2, type 2
Number of inputs	2 counter inputs + 2 gate inputs + 2 up/down switches
Number of counters	2, each with a depth of 32 bits
Counting frequency	100 kHz (2 kHz for switching between up and down)
Signal connection	M12, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)
Input filter	–
"0" signal voltage	-3...+5 V (EN 61131-2, type 2)
"1" signal voltage	11...30 V (EN 61131-2, type 2)
Number of outputs	2 x 24 V DC, 0.5 A, individually short-circuit-proof
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Bit width in the process image	80 inputs/outputs: 2 x 32 bit data (2 x 8 bit control/status)
Current consumption from Us (without sensor current)	see documentation
Electrical isolation	channels/control voltage: no, between the channels: no, control voltage/fieldbus: depends on the bus system
Operating/storage temperature	0...+55 °C/-25...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL