



ER1518-000x | 2-channel up/down counter 24 V DC, 1 kHz, 32 bit, adjustable input filters 0...100 ms

The ER1518 EtherCAT Box with digital inputs acquires binary control signals from the process level and transmits them, in an electrically isolated form, to the controller. The signal state is displayed by light emitting diodes. The signals are connected via M12 screw type connectors. The input filters can be set between 0 and 100 ms via EtherCAT. Inputs 0 and 4 can be used as 32-bit up/down counters.

The sensors are supplied via the control voltage U_s in two groups of four sensors each. Any short circuits on the sensor side are detected and reported to the controller. The load voltage U_p is not used in the input module, but may optionally be connected in order to be relayed downstream.

The EtherCAT Box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ER series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	ER1518-0002
Specification	EN 61131-2, type 1/3
Number of inputs	8, 2 of which can be used as 32 bit up/down counters
Input connections	M12, screw type
Counting frequency	max. 1 kHz
Protocol	EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)
Input filter	adjustable 0...100 ms
"0" signal voltage	-3...+5 V (EN 61131-2, type 3)
"1" signal voltage	11...30 V (EN 61131-2, type 3)
Input current	typ. 3 mA (EN 61131-2, type 3)
Distributed clocks	yes
Sensor supply	from control voltage, max. 0.5 A per 4 sensors, 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	input/output: 8 bit data, 8 bit diagnostics, 48 bit counter input, 48 bit counter output
Current consumption from U_s (without sensor current)	120 mA
Electrical isolation	500 V
Special features	adjustable filters
Operating/storage temperature	-25...+60 °C/-40...+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 in preparation

Related products	
EP1518	EtherCAT Box (industrial housing), 2-channel up/down counter 24 V DC, 1 kHz, 32 bit, adjustable input filters 0...100 ms