



## ER2318-000x | 4 x digital input + 4 x digital output 24 V DC, $I_{\max} = 0.5 \text{ A}$ , $10 \mu\text{s}$

The ER2318 EtherCAT Box combines four digital inputs and four digital outputs in one device. The outputs handle load currents of up to 0.5 A, are short-circuit-proof and protected against inverse polarity. The state of each signal is indicated by means of light emitting diodes. The signals are connected optionally via screw type M8 connectors (ER2318-0001) or connector M12 screw type (ER2318-0002).

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	ER2318-0001	ER2318-0002
Specification	EN 61131-2, type 1/3	
Number of channels	4 inputs + 4 outputs	
Input/output connections	M8, screw type	M12, screw type
Protocol	EtherCAT	
Bus interface	2 x M8 socket, shielded, screw type	
Input filter	10 $\mu\text{s}$	
"0" signal voltage	-3...+5 V	
"1" signal voltage	11...30 V, 6 mA input current (EN 61131-2, type 3)	
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof	
Load type	ohmic, inductive, lamp load	
Rated load voltage	24 V DC (-15 %/+20 %)	
Max. output current	0.5 A	
Short circuit current	typ. 1.5 A	
Auxiliary power current	typ. 20 mA per channel	
Current consumption from Us	120 mA	
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	4 inputs + 4 outputs	
Electrical isolation	control voltage/fieldbus: yes	
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	
EP2308	EtherCAT Box, industrial housing, 4 x digital input + 4 x digital output 24 V DC, $I_{\max} = 0.5 \text{ A}$ , 3.0 ms
EP2318	EtherCAT Box, industrial housing, 4 x digital input + 4 x digital output 24 V DC, $I_{\max} = 0.5 \text{ A}$ , 10 $\mu\text{s}$