



ER2338-x00x | 8-channel digital input or output 24 V DC, freely configurable

The ER2338 EtherCAT Box has eight digital channels, each of which can optionally be operated as an input or as an output. A configuration for using a channel as input or output is not necessary; the input circuit is internally connected to the output driver, so that a set output is displayed automatically in the input process image.

The outputs handle load currents of up to 0.5 A, are short-circuit proof and protected against inverse polarity. The filter constant of the inputs is 10 μ s (ER2338-000x) or 3 ms (ER2338-100x).

The state of each signal is indicated by means of light emitting diodes. The signals are connected via M8 (ER2338-x001) or M12 connectors (ER2338-x002).

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	ER2338-0001	ER2338-0002	ER2338-1001	ER2338-1002
Specification	EN 61131-2, type 1/3			
Number of channels	8 digital inputs or outputs			
Input/output connections	M8, screw type	M12, screw type	M8, screw type	M12, screw type
Protocol	EtherCAT			
Bus interface	2 x M8 socket, shielded, screw type			
Input filter	10 μ s	10 μ s	3.0 ms	3.0 ms
"0" signal voltage	-3...+5 V			
"1" signal voltage	11...30 V, 6 mA input current (EN 61131-2, type 3)			
Sensor supply	from load supply voltage, max. 0.5 A, short-circuit proof in total			
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 + load			
Current consumption from Us (without sensor current)	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	8 inputs + 8 outputs			
Electrical isolation	500 V			
Special features	freely configurable inputs or outputs			
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

EP2338-000x

EtherCAT Box, industrial housing, 8-channel digital input, 24 V DC, 10 μ s, or output 24 V DC, $I_{\text{max}} = 0.5$ A