



ER2339-002x | 16-channel digital input or output 24 V DC, freely configurable

The ER2339 EtherCAT Box has 16 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.

A filter constant of 3.0 ms is available for the inputs. The outputs are short-circuit-proof and protected against inverse polarity. They handle load currents of up to 0.5 A each, although the total current is limited to 4 A. The state of each signal is indicated by means of light emitting diodes. The signals are connected optionally via M8 (ER2339-0021) or M12 (ER2339-0022) screw type connectors. The sensors are powered by the load voltage Up.

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	ER2339-0021	ER2339-0022
Specification	EN 61131-2, type 1/3	
Number of channels	16 digital inputs or outputs	
Input/output connections	M8, screw type	M12, screw type
Protocol	EtherCAT	
Bus interface	2 x M8 socket, shielded, screw type	
Input filter	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 total, short-circuit-proof	
Load type	ohmic, inductive, lamp load	
Rated load voltage	24 V DC (-15 %/+20 %)	
Max. output current	0.5 A per channel, individually short-circuit-proof, total current max. 4 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	16 inputs + 16 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	
EP2339	EtherCAT Box, industrial housing, 16-channel digital input or output 24 V DC