



## ER2809-002x | 16-channel digital output 24 V DC, I<sub>MAX</sub> = 0.5 A (Σ 4 A)

The ER2809 EtherCAT Box with digital outputs connects the binary control signals from the controller on to the actuators at the process level. The 16 outputs handle load currents of up to 0.5 A each, although the total current is limited to 4 A. This makes these modules particularly suitable for applications in which not all of the outputs are active at the same time, or in which not all of the actuators draw 0.5 A current.

The signal state is indicated by means of light emitting diodes. The signals are optionally connected via M8 (ER2809-0021) or M12 (ER2809-0022) screw type connectors. All outputs are short-circuit-proof and protected against inverse connection.

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	ER2809-0021	ER2809-0022
Number of outputs	16	
Output connections	M8, screw type	M12, screw type
Protocol	EtherCAT	
Load type	ohmic, inductive, lamp load	
Nominal output 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	max. 1.5 A	
Distributed clocks	–	
Auxiliary power current	typ. 20 mA + load	
Current consumption from Us (without sensor current)	130 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 outputs	
Electrical isolation	500 V	
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	

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2000-xxxx-xxxx	Cables for M8 I/O connection sockets
ZK2000-6xxx-xxxx	Cables for M12 I/O connection sockets
ZK2020-3xxx-xxxx	Cables for M8 power supply

Related products	
EP2809	EtherCAT Box, industrial housing, 16-channel digital output 24 V DC, I <sub>MAX</sub> = 0.5 A (Σ 4 A)