



EP2328-000x | 4 x digital input and 4 x digital output 24 V DC, $I_{\max} = 2 \text{ A } (\Sigma 4 \text{ A})$

The EP2328 EtherCAT Box combines four digital inputs and four digital outputs in one device. A filter constant of 3.0 ms is available for the inputs. The outputs handle load currents of up to 2 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 2 A signal current.

The state of each signal is indicated by means of light emitting diodes. The signals are connected optionally via screw type M8 connectors (EP2328-0001) or connector M12 screw type (EP2328-0002). The sensors are powered by the box supply Us.

Technical data	EP2328-0001	EP2328-0002
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	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 control 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	2 A per channel, individually short-circuit proof, $\Sigma 4 \text{ A}$	
Short-circuit current	typ. 4 A	
Auxiliary power current	typ. 20 mA	
Current consumption from Us	typ. 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	500 V	
Weight	approx. 165 g	
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/Markings	CE, UL, ATEX	
Ex-Marking	II 3 G Ex nA IIC T4 Gc	

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