



EP2339-002x | 16-channel digital input or output 24 V DC

The EP2339 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 (EP2339-0021) or M12 (EP2339-0022) screw type connectors. The sensors are powered by the load voltage U_P .

Technical data	EP2339-0021	EP2339-0022
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, Σ 4 A	
Short circuit current	typ. 1.5 A	
Auxiliary power current	typ. 20 mA + load	
Current consumption from U_s	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	
Weight	approx. 250 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	CE, UL	

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	
EQ2339-0022	EtherCAT Box, stainless steel housing, 16-channel digital input 24 V DC, 3.0 ms, or output 24 V DC, I _{max} = 0.5 A (Σ 4 A)