



EQ2339-0022 | 16-channel digital input or output 24 V DC

The EQ2339 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 (EQ2339-0021) or M12 (EQ2339-0022) screw type connectors. The sensors are powered by the load voltage U_p .

The modules of the EQxxxx series are made of stainless steel and feature the "Hygienic Design" completely. Therefore they are ideal for applications in the food, chemical or pharmaceutical industries, which require protection class IP 69K.

Technical data	EQ2339-0022
Specification	EN 61131-2, type 1/3
Number of channels	16 digital inputs or outputs
Housing width	72 mm
Input/output connections	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)	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 inputs + 16 outputs
Electrical isolation	500 V
Special features	V2A stainless steel, Hygienic Design
Dimensions (W x H x D)	72 mm x 160 mm x 43 mm
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 69K (according to EN 60529)/variable
Approvals	CE, UL

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

Stainless steel products

For further information on the stainless steel control solution please see [here](#).