



EP2316-0003 | 8 x digital input + 8 x digital output 24 V DC, $I_{MAX} = 0.5 \text{ A}$

The EP2316 EtherCAT Box combines eight digital inputs and eight digital outputs in one device. A filter constant of $10 \mu\text{s}$ is available for the inputs. The outputs handle load currents of up to 0.5 A , are short-circuit-proof and protected against inverse polarity. Signal state and status are indicated by means of light emitting diodes. For the signal connection connectors with a spring-loaded system are used, optionally available with 1 or 3 pins. The module is supplied without connectors.

Technical data	EP2316-0003
Specification	EN 61131-2, type 1/3
Number of channels	8 inputs + 8 outputs
Input/output connections	connector with spring-loaded system
Protocol	EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Input filter	$10 \mu\text{s}$
"0" signal voltage	$-3 \dots +5 \text{ V}$
"1" signal voltage	$11 \dots 30 \text{ V}$, 6 mA input current (EN 61131-2, type 3)
Sensor supply	from control 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
Short circuit current	typ. 1.5 A
Auxiliary power current	typ. 20 mA + load
Current consumption from U_s (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	8 inputs + 8 outputs (8 inputs diagnostics)
Electrical isolation	500 V
Special features	IP 20, ideal for e.g. operating desks
Weight	approx. 165 g
Operating/storage temperature	$-25 \dots +60 \text{ }^\circ\text{C}$ / $-40 \dots +85 \text{ }^\circ\text{C}$
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 20/variable
Approvals	CE

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2020-3xxx-xxxx	Cables for M8 power supply

Accessories	
ZS2001-0001	female header with spring connection as IP 20 plug-in connection level, for KM or EM modules, EP2316-0003, EPP2316-0003 and IE2403, 1 x 10-pin, without LED
ZS2001-0002	female header with spring connection as IP 20 plug-in connection level, for KM or EM modules, EP2316-0003, EPP2316-0003 and IE2403, 1 x 10-pin, with LED
ZS2001-0004	female header with spring connection as IP 20 plug-in connection level, for KM or EM modules, EP2316-0003, EPP2316-0003 and IE2403, 3 x 10-pin, with LED