



EP2816-00xx | 16-channel digital output 24 V DC, $I_{max} = 0.5$ A ($\Sigma 4$ A)

The EP2816 EtherCAT Box with digital outputs connects the binary control signals from the controller on to the actuators at the process level. The sixteen 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. An output short-circuit is recognised and passed on to the controller.

The signal state is indicated in groups by means of light emitting diodes. The signal connection is realised by connectors with a spring-loaded system (EP2816-0003), a 25-pin D-sub socket (EP2816-0008), two 9-pin D-sub sockets (EP2816-0010) or a 19-pin M16 socket (EP2816-0004). The EP2816 is thus ideally suited for multi-pin connector valve terminals. All outputs are short-circuit-proof, protected against inverse connection and can be diagnosed.

Technical data	EP2816-0003	EP2816-0004	EP2816-0008	EP2816-0010
Number of outputs	16			
Output connections	connector with spring-loaded system	M16, 19-pin	D-sub socket, 25-pin	2 x D-sub socket, 9-pin
Protocol	EtherCAT			
Bus interface	2 x M8 socket, shielded, screw type			
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, $\Sigma 4$ A			
Short circuit current	max. 1.5 A			
Distributed clocks	–	yes	yes	yes
Current consumption from Us	120 mA			
Auxiliary power current	typ. 20 mA + load			
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin			
Electrical isolation	500 V			
Special features	ideal for multi-pin connector valve terminals			
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	CE, UL			

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2020-3xxx-xxxx	Cables for M8 power supply
ZS2002-0111	D-sub plug, 25-pin, solder contacts, IP 67
Spare parts	Connectors for KS and ES series, female header with spring connection as plug-in connection level, spare fuse, relay