



## EP9224-0023 | 4/4-channel power distribution for EtherCAT Box modules with current measurement/data logging

The EP9224-0023 enables connection of four EtherCAT Box power supply branches. In each 24 V branch the current consumption for the control voltage  $U_s$  and the peripheral voltage  $U_p$  is monitored, limited, and, if necessary, switched off.

The input voltage and current values of all outputs can be evaluated via the process data. A continuous data log of the relevant data can be retrieved when an error occurs in order to localise the cause of the error.

The power distribution is supplied via a 7/8" connector with up to 16 A (per voltage supply  $U_s/U_p$ ). Several modules can be configured in a cascade arrangement. In the event of a short-circuit in one of the four (eight) outputs, the affected output is switched off. The supply for the other branches remains active. The switch-off and control is done in such a way that the input voltage does not fall below 21 V. During startup consumers with large capacities can be added without problem.

The master can read diagnostic messages from the individual channels via the EtherCAT interface. Independent switching of individual consumer branches is also possible via the EtherCAT master.

Technical data	EP9224-0023
Number of outputs	4 x M8, 4-pin (per $U_s/U_p$ )
Connection method	M8, 4-pin
Max. output current	per M8: 4 A per $U_s$ and $U_p$
Load type	EtherCAT Box modules
Infeed	plug 7/8", max. 16 A per $U_s/U_p$
Power feed through	socket 7/8", max. 16 A per $U_s/U_p$
Signalling contact	potential-free make contact, M8
Nominal voltage	24 V DC (-15 %/+20 %)
Distributed clocks	–
Bus interface	2 x M8 socket, shielded, screw type
Protocol	EtherCAT
Electrical isolation	500 V
Data logging	recording of relevant data in case of failure
Special features	input voltages/currents, output currents via process data
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 in preparation

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2030-xxxx-xxxx, ZK2031-xxxx-xxxx	Cables for 7/8" power supply
ZK2000-2xxx-xxxx	Cables for M8 I/O connection sockets