



EP9214-0023 | 4/4-channel power distribution for EtherCAT Box modules

The EP9214-0023 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 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 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 | EP9214-0023 |
|----------------------------------|---|
| 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 |
| Special features | energy-efficient switching on and off of EtherCAT devices |
| 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-xxxx-xxxx | Cables for M8 I/O connection sockets |