

12 DIGITAL I/Os



The EK1818 EtherCAT Coupler integrates 16 additional I/O connection points for up to 12 digital I/Os in a standard Bus Coupler housing and is therefore particularly well suited for applications with a small number of I/Os and cramped space conditions.

EtherCAT Terminals: new coupler series reduces costs and space requirements in the terminal box

EK18xx EtherCAT Coupler series integrates digital I/Os

In addition to the connection of fieldbuses, the new EK18xx coupler series for the Beckhoff EtherCAT Terminal system integrates digital I/Os into the standard coupler. The HD (High Density) Terminal, which is used at connection level, offers 16 connection points. Four of these channels are reserved for the supply voltage; the remaining, up to twelve channels are available for digital I/Os. This compact solution saves costs and reduces space requirements in the control cabinet. The new coupler series is available with different I/O combinations.

The EK18xx coupler series combines the functionalities of the EK1100 EtherCAT Coupler with standard digital I/Os in one housing. This results in a compact design with dimensions of just 44 mm x 100 mm x 68 mm (W x H x D) that is especially suitable for applications with a small number of I/Os. Like the standard EK1100 coupler, the EK18xx couplers can be extended by all EtherCAT Terminals. The digital I/Os are implemented with a

single-wire technique. The wiring can be implemented without tools using a direct plug-in technique with single-wire conductors or wire end sleeves.

The following I/O variants are available:

- EK1814: 4 digital inputs / 4 digital outputs
- EK1818: 8 digital inputs / 4 digital outputs
- EK1828: 4 digital inputs / 8 digital outputs
- EK1828-0010: 8 digital outputs

Beckhoff is consistently continuing the path towards miniaturisation of designs and cost optimisation with the EK18xx EtherCAT Coupler series. Tailored to applications with a small number of I/O points and cramped space conditions, the EK18xx coupler offers the user a precisely dimensioned solution.

Further Information:

www.beckhoff.com/EK18xx