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Beckhoff Bus Terminals: Convenient manual and automatic process data control in buildings and plants

Manual operating modules for installation in control cabinet doors feature universal fieldbus connection

Beckhoff is extending its vast portfolio of Bus Terminal solutions with manual operating modules for mounting on the outside of control cabinet doors. These digital and analog I/O modules enable the convenient operation and observation of process data as well as easy manual intervention without opening the control cabinet. The manual operating modules can be integrated into the overall Bus Terminal system via K-Bus extension technology from Beckhoff and are available for all common bus systems using corresponding Bus Couplers.

The manual operating modules are mounted in the control cabinet door using a snap-in system. A total of four different function modules are available for the manual operating level:

- KL8519 | 16-channel digital input: signal module
- KL8528 | 8-channel digital output: changeover between manual and automatic mode, setting of outputs
- KL8528 | 4 x 2-channel digital output: changeover between manual and automatic mode, setting of 2-stage output
- KL8548 | 8-channel analog output, 0...10 V: changeover between manual and automatic mode, analog set value specification via potentiometer.

The modules are configurable via TwinCAT automation software from Beckhoff; i.e. the various functions can be individually parameterized via function blocks. Power and error LEDs indicate the status of the modules. All switch positions of the output modules are available in the controller as process variables.

The manual operating level prescribed in many specifications according to VDI 3814 can be realized using the Beckhoff modules with no further auxiliary products.

Straightforward cabling and fieldbus flexibility

Up to 31 KL85xx modules can be connected to the Bus Terminal system via the K-bus extension. The maximum distance between the individual KL85xx modules is 5 m. The modules can be integrated via the Bus Couplers into almost all bus systems, such as Ethernet, EtherCAT or PROFIBUS. The I/O level is wired via the KL9309 signal-independent adapter terminal using ribbon cable or shielded round cable. The KL9309 has 16 terminal points and is incorporated into the Bus Terminal node. The signals are electrically isolated.

Further Information:

www.beckhoff.com/KL85xx