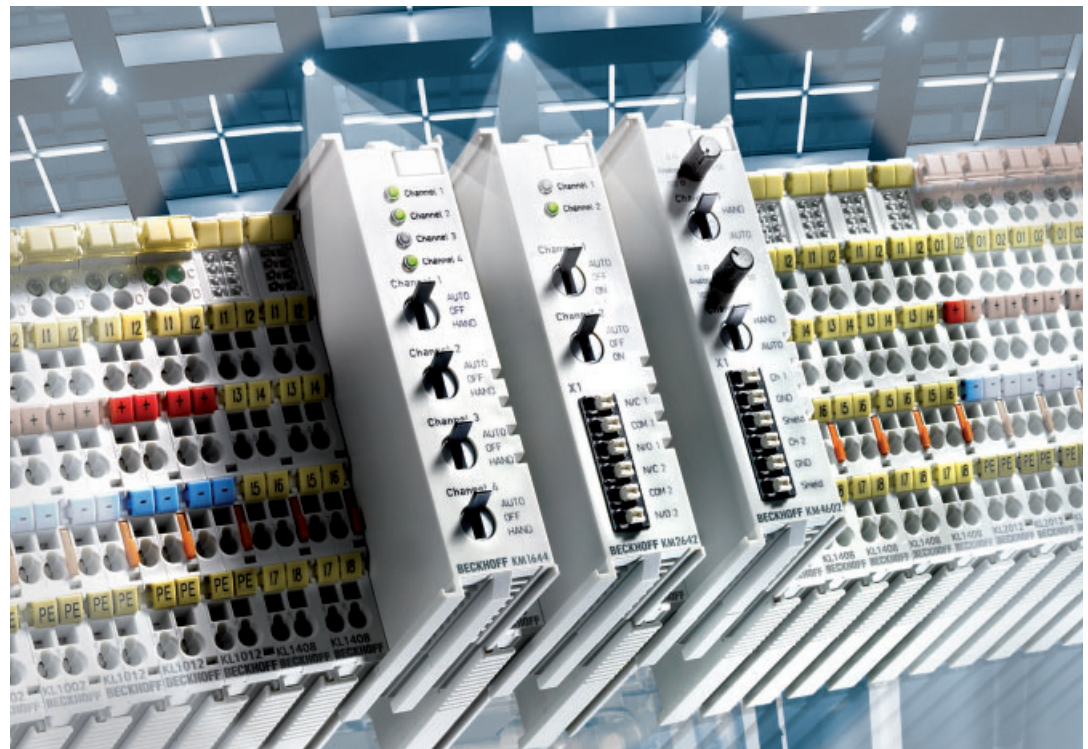


I/O terminals replace switches and potentiometers in control cabinets

More efficient manual operation using Bus Terminals

Beckhoff is extending its modular I/O components for industrial and building automation via Bus Terminals for convenient manual operation. The terminals, with switches or potentiometers, function as operating devices for changing process data independently of the controller. As a result of integrating these manual operating components into a Bus Terminal format, space requirements inside control cabinets can be reduced; additional switches and their wiring can be eliminated.

The Bus Terminals, with integrated switches or potentiometers, function as operating devices for changing process data independently of the controller.



To better support commissioning or restricted operating processes, Beckhoff offers four new Bus Terminals that reduce the number of operating components installed in control cabinets and, in this way, the required installation space. Particularly in cases where manual control is only required in exceptional cases, such as for troubleshooting or commissioning, the Bus Terminals with manual operation save space and cost. Manual controls are also advantageous during the assembly phase of a machine or plant, since they can be used to test the function of subassemblies before the control system has been fully installed.

In the field of building automation, the terminals can be used, for example, in sub-distributors for manual light switching or in the HVAC area for switching individual units (pumps or flaps) for the purposes of measurement, troubleshooting or commissioning – independent of the controller.

The four switches and four LEDs in the KM1644 terminal module are available in the control system as digital inputs or outputs and enable the direct input and display of process parameters.

Up to four consumers rated at up to 230 V AC, 16 A, can be connected directly to the KM2614 relay module in order to switch the consumers via the

changeover contact both manually and automatically by the controller. Two consumers rated at up to 6 A, 230 V AC, can be switched manually or in automatic mode using the KM2642.

The KM4602 2-channel analog output terminal is the corresponding equivalent for analog signals from 0 to 10 V. The mode of operation (manual/automatic) is selected by a toggle switch on the front panel and the analog value is set via a potentiometer.

www.beckhoff.com/BusTerminal

Product overview

- | KM1644 | 4-channel manual operation
- | KM2614 | 4-channel relay module, manual operation 16 A, 230 V AC
- | KM2642 | 2-channel relay module, manual/automatic operation 6 A, 230 V AC
- | KM4602 | 2-channel analog output terminal, manual/automatic operation, 0...10 V