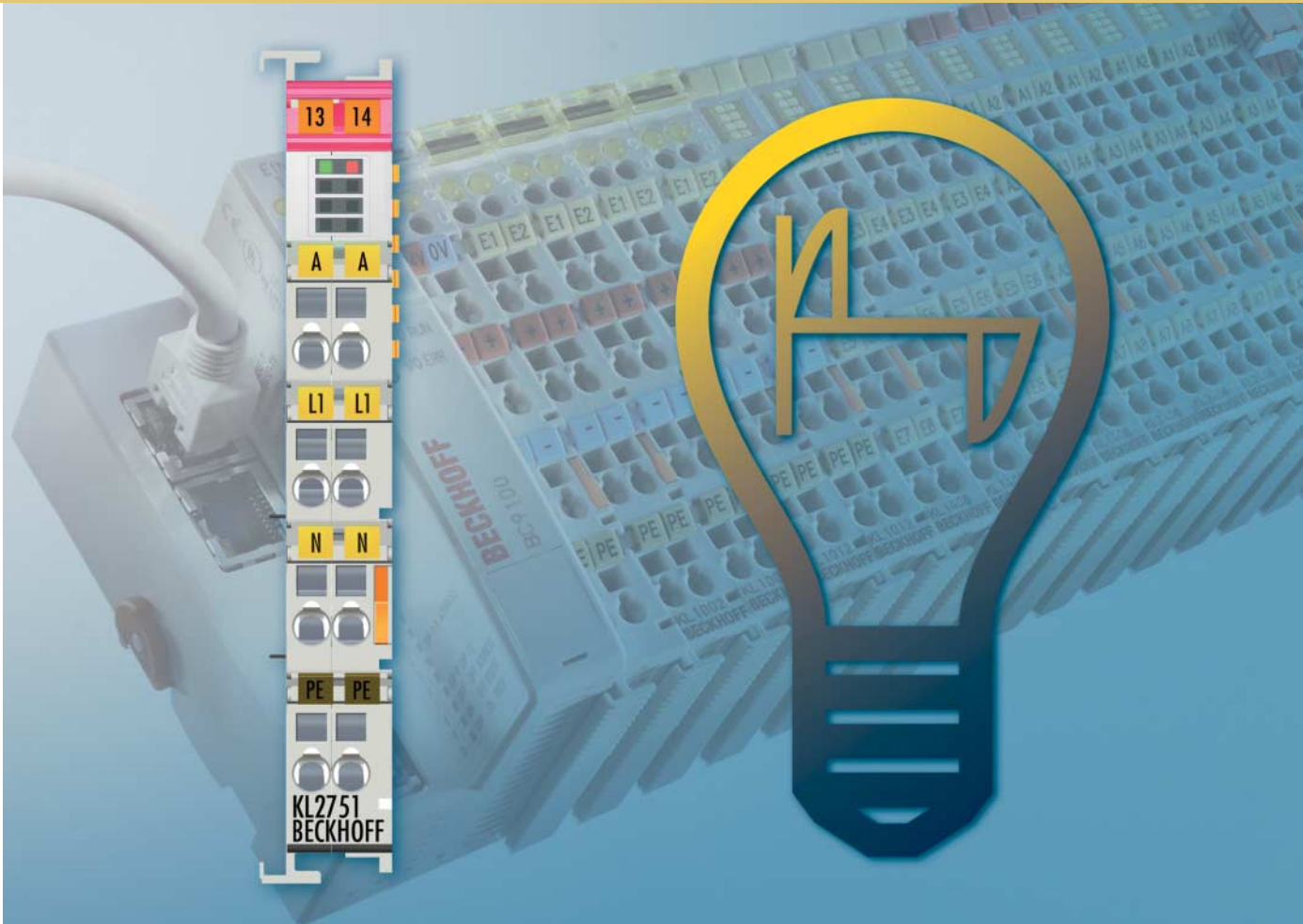


New Bus Terminals extend  
Beckhoff building automation kit

# Universal dimmer in the Bus Terminal

→ All sensors and actuators used in building automation can be connected directly to the Beckhoff Bus Terminal system. New Bus Terminals extend the range of applications for the multi-purpose I/O system through cost-saving alternatives such as a universal dimmer, an MP-Bus master terminal for integration of HVAC devices, or a 4-channel 16 A terminal module that offers a low price per channel.



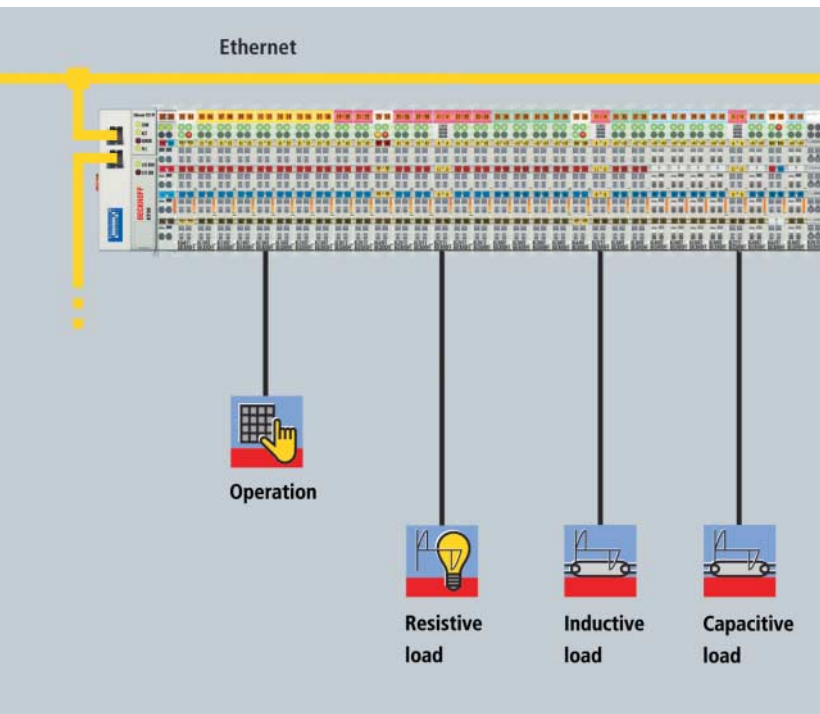
KL2751 dimmer Bus Terminal with automatic load detection and short-circuit-proof output.

The KL2751 dimmer Bus Terminal is designed to provide a direct connection of different AC consumers. Typical lighting devices such as incandescent lamps, inductive ballasts and electronic ballasts are detected and controlled in the correct mode. In addition to automatic load detection, the Bus Terminal offers a short-circuit-proof and overload-proof output.

The KL2751 is a universal 230 V dimmer in very compact Bus Terminal format, designed for building services applications. The brightness values of the lighting system can be modified via the controller process data, based on any bus system

supported by the Beckhoff I/O system. The universal dimmer can also be used as an AC power switch. A switchable load of 350 W enables wear-free switching of a wide range of consumers.

The dimmer terminal automatically detects the load type and calculates the correct phase control angle as required. Load detection occurs once after start-up. The result is stored in the Bus Terminal. The dimmer terminal is short-circuit-proof. It limits the current in the event of a short circuit, thereby protecting the load and preventing the triggering of the main fuse.



The dimmer terminal automatically detects the load type, e.g. incandescent lamps, inductive or electronic load.

## MP-Bus master terminal for HVAC devices

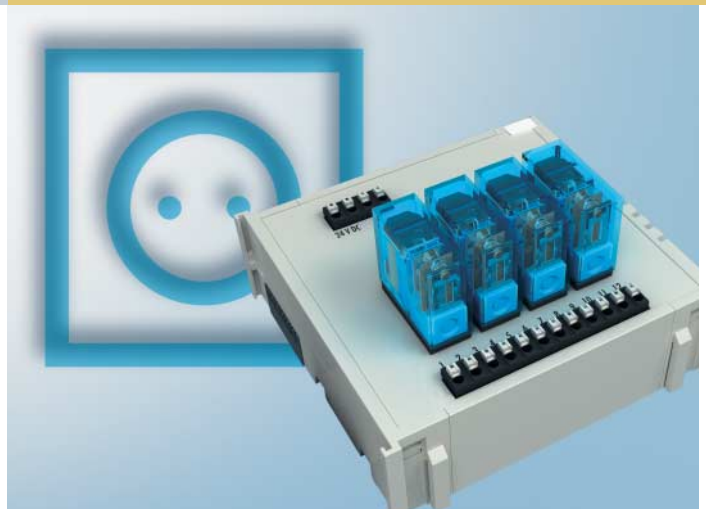
The MP-Bus master terminal enables direct connection of MP-Bus slave devices such as valves, throttle valves, air valves, fire dampers or window ventilation systems. A master terminal can be used to connect up to 16 MP-Bus devices. The terminal communicates with the higher-level controller via the Bus Coupler, in building services applications primarily through an Ethernet TCP/IP connection.

## LED group circuit via pulse width modulation

The 2-channel KL2512 pulse width output terminal enables direct connection of different ohmic loads. The output signal is a pulse-width modulated voltage. Via the bus system, the output can be set independently for two channels with a resolution of more than 30,000 steps. This terminal is particularly well suited for controlling lighting systems such as LED groups or incandescent lamps. LEDs are usually designed for 24 V DC and arranged in groups.

## 4-channel relay module with a rated current of 16 A

The KM2604 terminal module combines 4 pluggable power relays in one module. The high switching capacity of 16 A at 230 V AC enables direct mains connection of consumers with high current consumption. A rated current of 16 A enables switching of sockets with "normal" fuses. The separate 24 V supply enables switching off via emergency stop or via a central switch. Optionally, relays with integrated switches can be used in parallel with the internal, bus-controlled switch.



The KM2604 terminal module combines four pluggable power relays with a switching capacity of up to 16 A in one module.

## Triac terminal for 4 blind motors

The compact KM2774 module enables direct connection of up to four AC motors with reversal of rotation direction and a further travel function. A blind motor can thus be switched between three states via three mutually locked outputs. Example: "open", "closed" and "slow adjustment". For each motor, three mutually locked Triac outputs with 230 V AC and up to 1.5 A are available. An adjustable overcurrent limit protects the motor from damage.

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