Dimmer terminal with switchable output of up to 600 W

Universal dimmer with integrated diagnostics

The KL2761 dimmer Bus Terminal with a rated output of up to 600 W is intended for direct connection of different lighting devices, such as incandescent lamps as well as inductive and electronic ballasts. The lighting devices are detected and controlled in the correct operating mode. Integrated diagnostics indicate the operating status by means of LEDs and make the status data available via fieldbus systems. The electronic dimmer is extremely compact and is equipped with automatic load detection.

The KL2761 extends the range of 230 V universal dimmers for the Beckhoff Bus Terminal system by providing a variant with an output of 600 W and integrated diagnostics. It is primarily intended for use in building services and can switch numerous lighting devices with a wear-free design. The brightness values of the lighting system can be modified via the controller process data based on any supported bus system. The operating states are evaluated by the integrated diagnostics, indicated by LEDs and made available to additional applications via the bus system.

As a standard feature, the dimmer terminal automatically detects the type of load and calculates the correct phase control angle. Load detection occurs once after start-up. The result is stored in the Bus Terminal. The dimmer terminal is short-circuit-proof and limits the current in the event of a short circuit.

→ www.beckhoff.com/BusTerminal

Four electronic power contacts with a compact design

Electronics replace mechanical relays

The KL2784 and KL2794 digital output terminals for the Beckhoff I/O system are able to switch voltages up to 24 V AC/DC using advanced Mosfet transistors. The four potential-free semiconductor switches represent a substitute for relay contacts. They are short-circuit-proof and are free from wear, thereby increasing availability for applications.

The KL2784 and KL2794 are well suited, for example, to building automation systems for switching valves and pumps in heating, air conditioning and ventilation systems.

Conventional mechanical contacts are replaced by electronics of the KL2784 and KL2794 terminals. Mosfet transistors integrated in the terminals switch the voltages without any mechanical parts having to be moved. Since there is no wear, a long service life can be expected even when switching is very frequent. The terminals are designed for peak currents of up to more than 50 A and, as a result, are virtually short-circuit-proof.

The terminals are equally suitable for alternating and direct current. The four outputs of the KL2784 are potentially bound to the power contact; the four outputs of the KL2794 are potential-free.

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