Beckhoff — KM Bus Terminals

KM2002



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The **KM2002** output terminal is built by Beckhoff for the KM Bus Terminals series. It occupies one slot on a standard DIN rail and extends a fieldbus coupler with a cluster of low-power switching channels that actuate distributed devices inside automated machinery. By concentrating multiple outputs in a single 12 mm housing, the module reduces panel wiring and enables compact expansion of decentralized I/O assemblies used in conveyor, packaging, and material-handling lines.

The terminal electronics are powered exclusively through the **K-Bus** and draw only **5 mA** of internal supply current, so no additional wiring is required for the electronics. Each channel can switch field loads at a nominal supply of **24 VDC** while sourcing up to **0.5 A per channel**. The permissible load range includes resistive heaters, inductive solenoids, and lamp circuits, with a per-output inrush limit referenced by the 15 mA load-voltage monitoring current. Integrated protection detects overload and short-circuit conditions and automatically switches off the affected output to prevent damage. A front connector terminates eight outputs per tier, providing two rows of signals for efficient cable routing. Channel data are transferred across the backplane as a packed word that occupies **16 outputs** in the controller image.

The housing snaps onto a **35 mm** top-hat rail and supports installation in any orientation. Its protection rating is **IP20**, which helps prevent accidental finger contact with live parts when the cabinet door is open. Signal encoding uses a **16-bit word width**, which aligns directly with the controller's process image and avoids additional software masking. Operation is permitted at relative humidity levels of up to **95%** without condensation. This tolerance

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allows the terminal to operate in humid production areas, including bottling or washdown zones, when it is installed inside a suitable enclosure. The compact housing and flexible mounting position also help preserve space when several terminals are installed beside the fieldbus coupler.

Specifications

Electrical Isolation:	500 Volts	**Electronics Supply:**	K-Bus	**Installation Position:**	Variable
K-bus Current:	5 mA	**Load Type:**	Ohmic, Inductive, Lamp Load	**Load Voltage Current:**	15 mA
Max Output Current:	0.5 A/Channel	**Max Relative Humidity:**	95%	**Mounting Rail:**	35 mm
Nominal Voltage:	24 VDC	**Number Of Outputs:**	16	**Operating Temperature:**	0 to +55°C
Output Bit Width:	16 Bit	**Output Current Per Channel:**	Max 0.5 Amps	**Outputs:**	16
Outputs Per Connector:	8	**Overload Protection:**	Yes	**Protection Class:**	IP20
Protection Rating:	IP20	**Short-circuit Protection:**	Yes	**Type:**	Bus terminal module
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