Beckhoff — KM Bus Terminals

KM2008



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The **KM2008** is a digital output terminal developed by Beckhoff for the KM Bus Terminals series. Intended for modular I/O stations, the component attaches beside a Bus Coupler and provides multiple 24 V field outputs in a single housing. By channeling control data through the internal K-Bus, the terminal eliminates separate signal cabling to the CPU and streamlines installation in machine controllers, conveyor lines, and process skids where compact DIN-rail automation hardware is required.

Each connector provides **eight output channels** that operate at a nominal voltage of **24 VDC** and can deliver up to **0.5 A** to resistive, inductive, or lamp loads without external relays. Galvanic isolation of **500 V** protects the terminal electronics from high-energy switching events. Power for the microelectronics is supplied exclusively through the K-Bus, with a current draw of only **5 mA**, so no auxiliary logic supply is needed. The separate load-voltage path requires only 15 mA, keeping cabinet power requirements modest. Output conductors may be connected using single-wire, two-wire, or three-wire techniques, providing flexibility in grounding and feedback arrangements. The housing supports variable installation positions, allowing the unit to fit upright or flat orientations inside control enclosures.

The module exposes **64 outputs** to the controller, and the communication layer represents them as an **8-byte process image** that is 64 bits wide, allowing direct bit addressing from the PLC. Mechanical integration is provided by a **35 mm DIN rail**, which also supports the spring contacts for the K-Bus connection. The enclosure has an **IP20 protection rating**, providing touch-safe terminals for installation in closed control panels. The compact housing

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conserves rail space while accommodating the connectors and internal bus contacts needed for the full channel count. Spring-contact integration also allows the communication path to continue across adjacent terminals without separate internal wiring.

Specifications

Channels:	64	**Channels Per Connector:**	8	**Connection Technology:**	Plug
Electrical Isolation:	500 Volts	**Electronics Supply:**	K-Bus	**Installation Position:**	Variable
Isolation Voltage:	500 V	**K-bus Current:**	5 mA	**Load Type:**	Ohmic, Inductive, Lamp Load
Load Voltage Current:	15 mA	**Mounting Rail:**	35 mm	**Nominal Voltage:**	24 VDC
Operating Temperature:	0...55°C	**Output Current Per Channel:**	0.5 A	**Output Type:**	Digital
Outputs:	64	**Process Image Length:**	8 Byte	**Process Image Width:**	64 Bit
Protection Class:	IP20	**Short-circuit Current:**	< 2 Amps	**Type:**	Bus terminal module
Wiring Technique:	Single, Two, Three-Wire	**Last Verified:**	11/10/2026 4:46 PM		

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