



KM1002, KM1012 | 16-channel digital input 24 V DC

The terminal modules KM1002 and KM1012 combine 16 digital inputs with eight channels per plug connector in a compact design with high packing density. The control signals are transmitted (electrically isolated) to the higher-level automation device. Like the standard Bus Terminals, the terminal modules are integrated in the I/O system. Plug connectors with spring connections enable plug-in wiring and are available with 1 or 3 pins. LEDs integrated in the connector indicate the signal state for each channel directly at the wire. The KM1002 and KM1012 versions have input filters with different speeds.

Technical data	KM1002	KM1012
Connection technology	plug	
Specification	EN 61131-2, type 1	
Number of inputs	16 (2 x 8)	
Nominal voltage	24 V DC (-15 %/+20 %)	
"0" signal voltage	-3...+5 V	
"1" signal voltage	15...30 V	
Input filter	typ. 3.0 ms	typ. 0.2 ms
Input current	typ. 5 mA	
Current consumpt. K-bus	typ. 3 mA	
Current consumption power contacts	– (no power contacts)	
Electrical isolation	500 V (K-bus/field potential)	
Bit width in the process image	16 inputs	
Configuration	no address or configuration setting	
Dimensions (W x H x D)	26.5 mm x 100 mm x 71 mm	
Weight	approx. 90 g with 1-pin connector, approx. 110 g with 3-pin connector	
Operating/storage temperature	0...+55 °C/-25...+85 °C	
Relative humidity	95 %, no condensation	
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27	
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4	
Protect. class/installation pos.	IP 20/variable	
Approvals	CE	

Ordering information	x = 0	x = 1
KM10x2-0000	16-channel DI (3.0 ms), without connector	16-channel DI (0.2 ms), without connector
KM10x2-0001	16-channel DI (3.0 ms), 1-pin connector (no status LED)	16-channel DI (0.2 ms), 1-pin connector (no status LED)
KM10x2-0002	16-channel DI (3.0 ms), 1-pin connector (with status LED)	16-channel DI (0.2 ms), 1-pin connector (with status LED)
KM10x2-0004	16-channel DI (3.0 ms), 3-pin connector (with status LED)	16-channel DI (0.2 ms), 3-pin connector (with status LED)