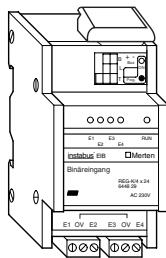


Binary input REG-K/4x24

Colour **Article no.**
light grey 644890

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1. Function

The INSTABUS binary input REG-K/4x24 converts binary switching voltages (0 V/24 V) into data telegrams. The binary input REG-K/4x24 can convert states of conventional 24 V devices such as door and window contacts into data telegrams. The necessary scanning voltage must be supplied by an additional AC 24 V or DC 24 V voltage source. Each channel has an LED which displays the input state. It is therefore possible to detect if voltage is present. A green LED indicates the correct status of the program in the bus coupler.

2. Installation

The INSTABUS binary input REG-K/4x24 is a DIN rail mounted device and is mounted on a DIN rail EN 50022-35. A data rail is not required. The bus connection is carried out via the bus connecting terminal supplied with the device. The cable cover is then placed over the bus connecting terminal to guarantee the safety clearance of the bus line to the 230 V cables. All devices which are mounted next to the binary inputs must at least be equipped with basic insulation.

The cables to the connected devices or output contacts are connected via plug-in terminals with screw connection. The cables can be screwed onto the plug-in terminals before the device is installed and then inserted at a later date. 6 terminals are available to the binary input REG-K/4x24: 2 x (-) common potential, E1, E2, E3, E4.

It is displayed via an LED per channel whether voltage is present at the input. The green operating LED only lights up if the application program has been loaded correctly into the device.

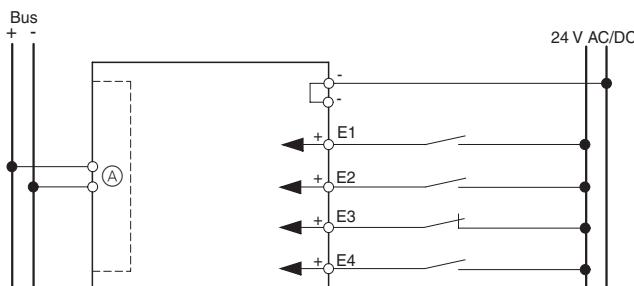
The bus coupler is integrated into the device.

3. Technical Data

Inputs

Number of channels:	4
Input voltage:	AC/DC 24 V
Input current:	DC 15 mA (30 V), AC 6 mA (27 V)
	Characteristic of the inputs in accordance with IEC65A type 2
0 signal:	≤ 5 V
1 signal:	≥ 11 V
Permitted cable length:	max. 100 m
Insulation voltage:	AC 4 kV between the bus and the inputs
Ambient temperature	
Operation:	-5 °C to +45 °C
Storage:	-25 °C to +55 °C
Transport:	-25 °C to +70 °C
Environment:	The device is designed for use at a height up to 2000 m above sea level
Operating elements:	Programming button
Display elements:	Red LED for checking the programming Green LED when applica- tion program is loaded 4 yellow LEDs for signal voltage (24 V) at the input
Connections	
Bus:	via two 1 mm pins for bus connecting terminal
Inputs:	two 3-pole plug-in termi- nals with screw connection for max. 2.5 mm ²
EC guidelines:	corresponds to low voltage guideline 73/23/EEC; corre- sponds to EMC guideline 89/336/EEC
Dimensions:	90x45x65 mm (HxWxD)
Device width:	2.5 modules = 45 mm

Connection example



(A) Bus coupler

4. Settings in the EIB Tool Software (ETS)

Selection in the product database

Manufacturer:	Merten
Product family:	2.6 Binary input, 4-gang
Product type:	2.6.03 DIN rail mounted REG-K/ 24 V
Program name:	Universal 120D/2.1
Product name:	Binary input REG-K/4x24
Order number:	644890

5. Application overview

The following applications are available:

Application	Vers.	Function
Universal 120D/2.1	2.1	<p>Group addresses: Number = 34/ Associations = 34, dynamic</p> <p>Can be set for all channels:</p> <p>Delay in readiness for operation: from 17 to 30 seconds</p> <p>Debounce time of 10 to 120 ms</p> <p>Can be set per channel:</p> <p>Contact type: Make/break contact</p> <p>Disable function</p> <p>TOGGLE: 2 objects, 1 bit or 1 byte</p> <p>Switch: 2 objects, 1 bit or 1 byte</p> <p>Cycl. monitoring: 2 objects, cycl. send- ing e.g. for wind alarm</p> <p>Dimming: single surface or dual sur- face</p> <p>Blind: single surface or dual surface</p> <p>Pulse edges: 2 objects (1 bit, 2 bit, 1 byte), each object with indep. pulse edge function</p> <p>Extended pulse edge function: 2 ob- jects, (1 bit, 2 bit, 1 byte), with time function, cycl. sending; each object with indep. pulse edge function</p> <p>Pulse edges with 2 bytes</p> <p>8 bit linear regulator</p>