ABB i-bus® KNX

Universal I/O Concentrator, 32fold, MDRC
UK/S 32.2, 2CDG 110 071 R0011

2CDC 071 053 F0007

The Universal I/O Concentrator has 32 freely programmable channels, each with a terminal for the connection of floating contacts or signal lamps.

This for example, allows the control of operating or display panels. The device requires an external auxiliary voltage supply.

Each channel can be separately programmed as an input or output. When operated as an input a push button/switch is typically connected to a channel.

It can trigger a command, e.g. to switch, dim or to actuate a shutter control.

The channels that are used by the outputs can switch signal lamps or LEDs either normally, inverted or make them flash.

In operation the device is suitable for displaying processing of a fault signal in conjunction with the Fault Signalling Module SMB/S 1.1.

Technische Daten

Power supply	– Operating voltage	21...30 V DC, made available by the bus
	– Current consumption via the bus	max. 12 mA
	– Auxiliary voltage	Nominal values: 12/24 V DC
		permissible: 10 ... 30 V DC
		Ripple: < 5 %
		Reverse voltage protection
		Device current consumption: max. 35 mA
	– Leakage loss	max. 2.5 W at 24 V DC
		max. 1.9 W at 12 V DC
		(at max. channel loading)
Inputs/outputs	– Number	32, can be individually configured as inputs or outputs
	– Permitted line length	max. 10 m
Input	– Sampling voltage Un of the inputs	Equal to the auxiliary voltage (12/24 V DC)
Output	– Signal level of the outputs	Equal to the auxiliary voltage (12/24 V DC)
	– Output current	Max. 80 mA per output
	– Permitted load type	Resistive
	– Safety	Short-circuit protected, overload protected
Connections	– Inputs/outputs	Plug-in screw terminals
	– KNX	Bus connection terminal
Operating and display elements	– LED (red) and button	For assignment of the physical address
Enclosure	– IP 20	To DIN EN 60529
Safety class	– II	To DIN EN 61140
Isolation category	– Overvoltage category	III to DIN EN 60664-1
	– Pollution degree	2 to DIN EN 60664-1
Temperature range	– Operation	– 5° C ... + 45° C
	– Storage	– 25° C ... + 55° C
	– Transport	– 25° C ... + 70° C
Ambient conditions	– Maximum air humidity	93 %, no condensation allowed
Design	– Modular installation device (MDRC)	Modular installation device, Pro*M*
	– Dimensions	90 x 72 x 64 mm (H x W x D)
	– Mounting width	4 modules at 18 mm
	– Mounting depth	68 mm
Installation	On 35 mm mounting rail	To DIN EN 60 715
Mounting position	As required	
Weight	0.15 kg	
Housing, colour	Plastic housing, grey	
Approvals	KNX to EN 50 090-1, -2	Certification
CE mark	In accordance with the EMC guideline and low voltage guideline	

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Application program	Number Communication objects	Max. number of group addresses	Max. number of associations
Binary Input Display Heating 32f/1	227	254	255

Note: The programming requires ETS2 V 1.3 or higher. If ETS3 is used a ".VD3" type file must be imported. The application program can be found in the ETS2/ETS3 at "ABB/Display and visualisation/Binary input and output".

Note: The device does not support the ETS encryption function. If you inhibit access to all devices of the project with a "BA password" (ETS2) or "BCU code" (ETS3), it has no effect on this device. Data can still be read and programmed.

Note: See the product manual "Universal I/O Concentrator UK/S 32.2 " for a detailed description of the application programs. The product manual is available free of charge on the Internet at www.abb.de/eib.
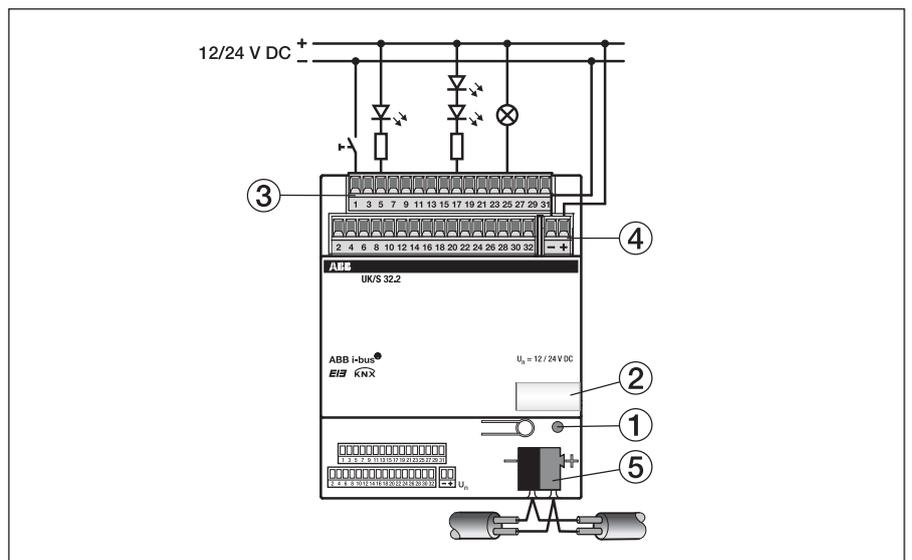
Dimension drawing
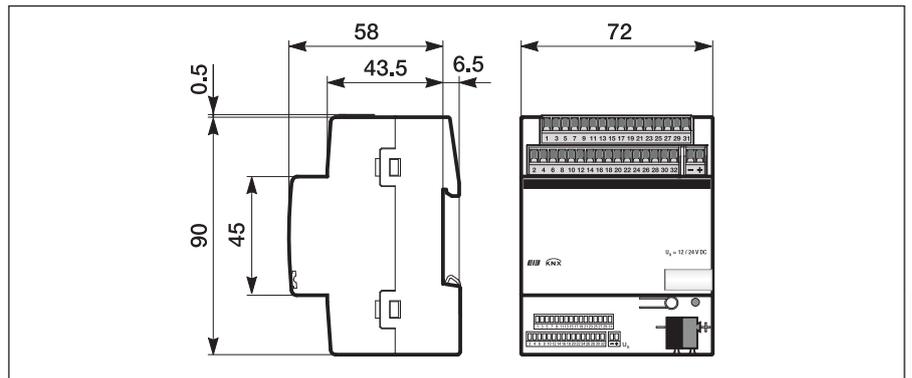
Circuit diagram

1 Programming LED
2 Label carrier
3 Input/output contacts

4 Auxiliary voltage supply connection
5 Bus terminal connection