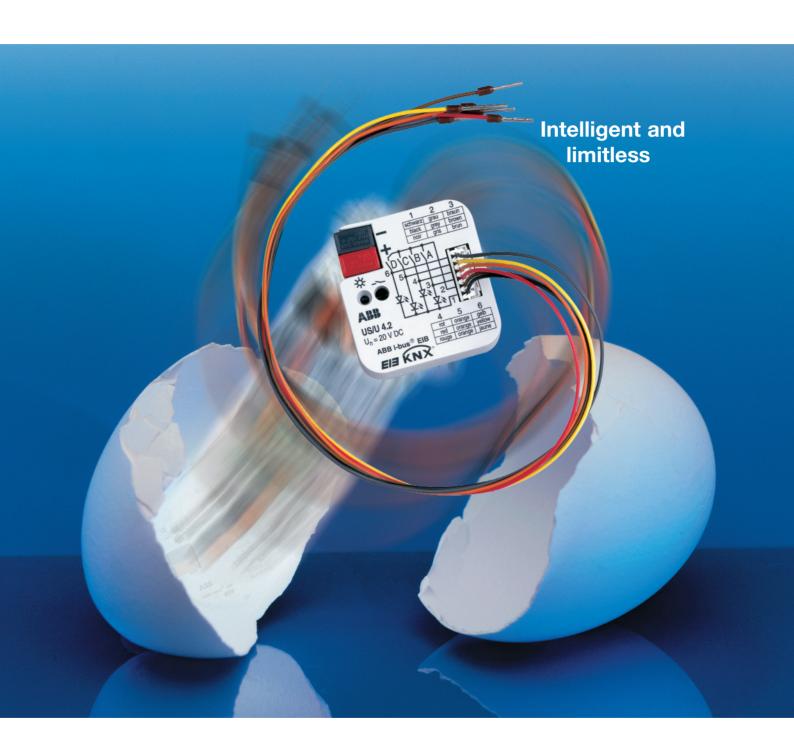
Intelligent Installation System







The functions implemented in modern buildings with ABB i-bus® EIB should be both simple to operate and intuitive. At the same time, clear and user-friendly operation is extremely important to the value of a building installation.

The universal interfaces meet individual requirements in both functional buildings and the residential sector. The planner and installer of the system thus has a feeling of certainty as regards the functions that are to be realised.

Additional benefits



Only one application program

The device only has one application program which contains all the functions.

Compact design

This simplifies flush-mounted installation e.g. behind a conventional switch.

Two variants

Two versions of the universal interface are now available: US/U 4.2 with four inputs/outputs and US/U 2.2 with two inputs/outputs.

Flexible functionality

Each input/output can be assigned any function.

This simplifies the planning and installation and ensures reliability.

Important highlights/functions



0

1, prog. 3,10,20,30,40,50 kWh

Scene control

Each input can recall and/or store a scene with up to 5 actuator groups.

· Operation as a heating actuator

The device can control heating systems with a thermal valve drive (additional electronic relay ER/U 1.1 is required). Useful functions are possible such as continuous control, positive operations, automatic valve purging and fault operation when the room temperature controller has failed.

LED functions

The device can control LEDs e.g. to give the user status feedback for the operation. The LEDs can also flash.

Universal operating concepts

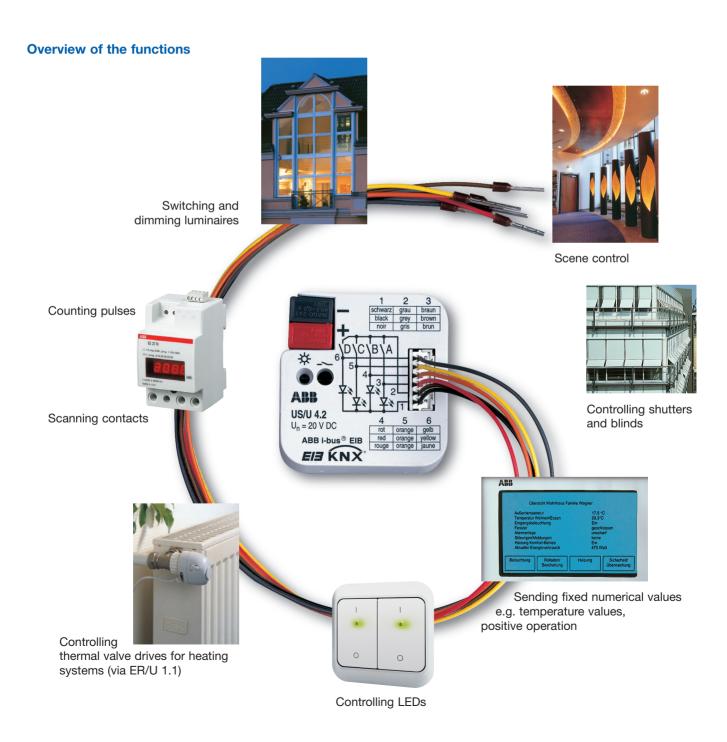
There is a universal distinction between a short and long push button action. Functions are also retrieved by a sequence of multiple push button actions.

Counting

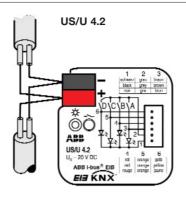
The counting of switching processes is a frequent application e.g. to record energy consumption. The counting function also enables normal-rate consumption to be measured.

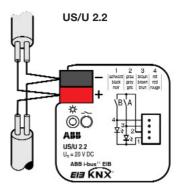


The universal interfaces US/U 2.2 (2-fold) and US/U 4.2 (4-fold) serve as interfaces for convenient operation in ABB i-bus® EIB installations using conventional push buttons/switches or for reading out technical binary signals. They also enable the control of LEDs and the electronic relay ER/U 1.1 for regulating electrothermal valve drives within the heating control system. The extremely compact design permits the insertion of the device in conventional 60 mm switch boxes e.g. behind a conventional push button or switch. The devices stand out due to their unique, comprehensive and clear functionality which enables them to be used in a wide variety of applications.



Circuit diagrams





Technical data

Power supply:	Bus voltage	via ABB-i bus® EIB, power consumption < approx. 10 mA		
Inputs/outputs:	Number	2 for US/U 2.2 4 for US/U 4.2 Can be parameterised individually as inputs or outputs		
Input:	Permitted cable length Scanning voltage Input current	≤ 10 m 20 V DC 0.5 mA		
Output:	Output voltage Output current Safety	5 V DC max. 2 mA, limited by series resistor of 1.5 kW Short-circuit-proof, overload protection, reverse voltage protection		
Operating and display elements:	(Red) LED and push button	For assigning the physical address		
Connections:	Inputs/outputs ABB i-bus® EIB	4 cables for US/U 2.2 6 cables for US/U 4.2 approx. 30 cm long, can be extended to max. 10 m via bus connecting terminal, included with supply		
Miscellaneous	Type of protection Protection class CE norm Approval Installation Dimensions (W x H x D) Weight	IP 20 (EN 60529), when installed III in accordance with the EMC guideline and the low voltage guideline EIB-certified in switch box, 60 mm 39 x 40 x 12 mm 0.05 kg		

Programming with ETS2 V1.2 or higher

Selection table

Description	Version	Ordering info. Short code	Product code	bbn 40 16779 EAN	Weight 1 Pc. (kg)	Package (Pc.)
Universal interface Universal interface	2-fold 4-fold	US/U 2.2 US/U 4.2	GH Q631 0074 R0111 GH Q631 0070 R0111	56483 0 56481 6	0.05	1



The information in this leaflet is subject to change without further notice.

Pub. No.: 2CDC 504 021 D0201