InBlock i8 HV	Order number: 77024-180-30

General Usage

In the ETS application's basic setting, the standard parameters for simple input functions are visible. If the basic settings are changed, only those parameters are shown which are relevant to the selected function.

A brief overview of the functionality is given in the following table:

Inputs
POTENTIAL FREE CONTACTS (BUTTON)
Switching value
Dimming
Shutter
KNX Scenes
Multiple operations
Standard motion detectors (230VAC)

ADVANCED FUNCTIONS	
Analog & digital alarms	Logic functions
Scene controller	Advanced scene controller
Timers	Setpoints
Overwrite end user parameters	Behavior at bus recovery

Device Types and accessories

At present the following device types are available in the InBlock control group:

Product	Description	Order-number:
InBlock i8	8 Inputs 230VAC	77024-180-30

Scope of delivery

The following individual components are included in the delivery of the InBlock device:

- Complete device with connected bus connector
- Operating and mounting instructions
- Delivered in break-proof individual packaging

Application programs

The following application programs are currently available for the InBlock device:

- 77014-InBlock i8 HV-11-0110

Function of the application program cf. Application Program Description

Installation device

- Risk of death by electric shock.
- The device is intended for interior installation in dry rooms.
- The device must only be installed and commissioned by an accredited electrical engineer.
- Please follow country-specific safety and accident prevention rules as well as all current KNX guide lines.
- Please follow country-specific rules and regulations for the planning and construction of installations, especially with regard to emergency lighting systems.
- For the installation the device must be switched to zero potential.
- Do not open the device! Faulty devices must be returned to the manufacturer.

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Technical Data

POWER SPECIFICATIONS

Power supply	Via KNX bus Max. current consumption	21..30VDC 9,5mA
Additional supply		No

INPUT SPECIFICATIONS

Number of inputs	Total inputs	8 binary 230VAC inputs with 1 common terminal by each of them
Type of inputs	Binary	Ready for 100VAC to 250VAC
Scanning voltage		230VAC
Input current		0,06mA per input
Max phases allowed		3 phases allowed (Each input can be powered by an independent pase).
Max cable length		100m
Connections	KNX bus connection terminal Terminal screw block Tightening torque for terminal screw	0,8mm² solid max. 6mm² Ø solid maximum 0.5 Nm

GENERAL SPECIFICATIONS

Control and display elements	Programming button LED 8 x buttons for manual inputs control 8 x LEDs	To assign the physical address Binary input testing To display actual binary input status
Mechanical data	Casing: Dimensions REG casing 4TE Width: Hight: Length: Weight: Mounting:	Plastic ABS – V0 140 mm 58 mm 90 mm 440 g 35 mm DIN rail
Electrical safety	Degree of contamination: Protection type (in accordance with EN60529): Protection class (according to IEC 1140): KNX Bus:	2 IP20 class I Separated extra-low voltage SELV DC 24
EMC requirements	Complies with: Overvoltage category:	EN 50491-5-2 / EN 50491-5-3 class III
Environmental conditions	Clima conditions: Operation temperature: Storage temperature: Rel. humidity (non condensing):	EN 60721-3-3 class 3k5 -5°C to +45°C -25°C to +70°C 5 % to 93 %
Certification CE-Signage		KNX registered According to EMC-Guidelines (Residential and commercial buildings), Low Voltage guidelines

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Location and function of the LED's and control elements
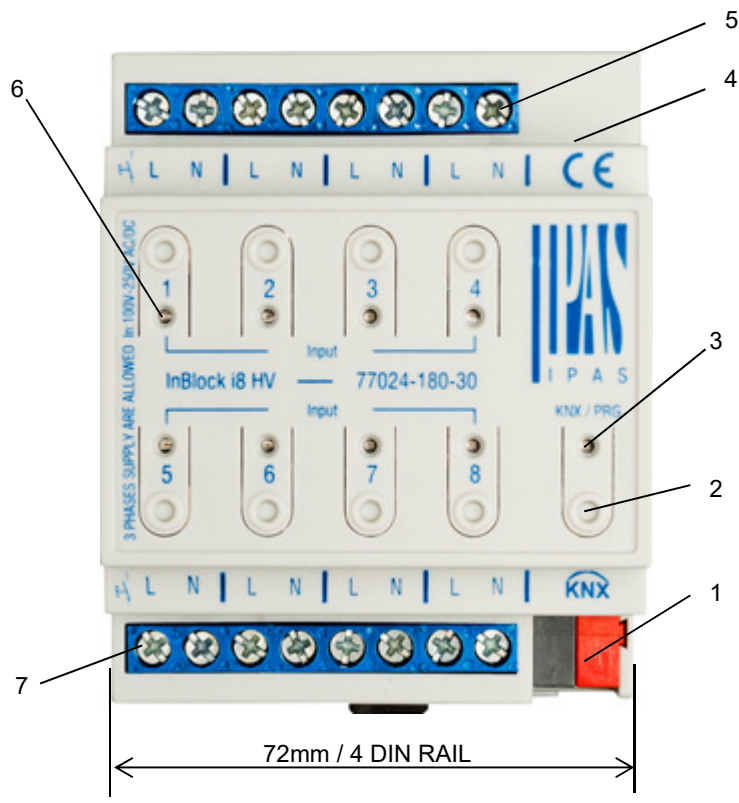
1: KNX bus connector
2: Programming button
3: Programming LED
4: SD card slot (only for internal use)
5: 230VAC Input, terminal

6: 230V input LED ON = contact closed,
LED OFF = contact OPEN
Manual mode: Function according to the ETS
parameterization; Telegram will be correct

7: 230VAC Input, terminal

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Mounting and wiring

As an REG device, the InBlock series are suitable for mounting in distribution boxes on 35 mm DIN rails. To mount the device, it must be angled to slide onto the DIN rail from above and then locked into place with a downward movement.

Please make sure that the security latch at the bottom side of the device snaps into place and that the device is firmly attached to the rail. To dismount the device, the security latch can be pulled downwards with a suitable tool and then the device can be removed from the rail.

After the device has been inserted, the cables for the Inputs should be attached to the Inputs connectors. However, please make sure that these are labeled clearly.

To connect the KNX cable, a standard bus connector is plugged into the respective entry on the device.

Attention: Please make sure that there is double basic insulation between the KNX installation and the power supply. To do so, please insulate the wires of the KNX cable up to the bus connector with the enclosed shrinkable tubing.

INPUT SCHEMATIC

Inputs can be configured to receive binary signals between 100VAC and 250VAC: movement detector, switching and monitored input, all of them with 230V.
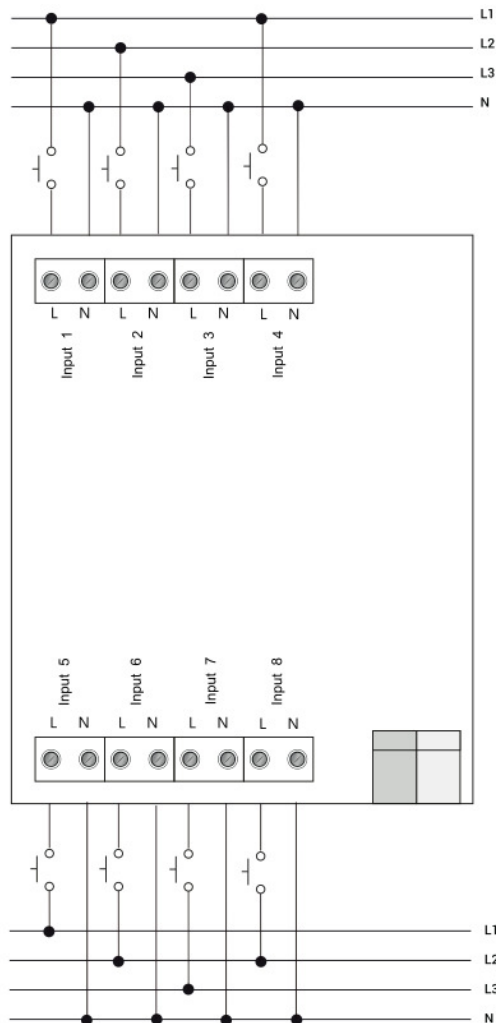
InBlock i8 HV   **Order number: 77024-180-30**

ANNEX 1: Manual Control

The inputs of the actuator have 1 push button and 1 status LED for each input on the below LED row.
These buttons can be activated to control each and every input individually if you select "yes" in the relevant parameter options in Binary Input.

The LEDs represent: Actual input status for the 1,2,3,4,5,6,7,8 inputs.
The function when the button is pressed is NOT indicated on the LED.

MANUAL CONTROL – TEST

Binary
Press action on 1,2,3,4,5,6,7,8: Sends predefined command 0/1 to the "associated object" of the input (simulates the close/open action on the binary contact)

LED = ON   (indicates input status -> Input contact closed)

LED = OFF (indicates input status -> Input contact closed)