

Motion detector mini basic in connection with the application-oriented logic of the power supply with IP interface.

While using a push-button interface

It is becoming increasingly common to dispense with a classic keycard switch in hotel rooms. It is however known that the guest likes to be met with a welcome light or scene in their hotel room. As it is not possible to detect presence via the keycard switch if it has been omitted, there is the possibility to detect presence via a motion detector.

Required products

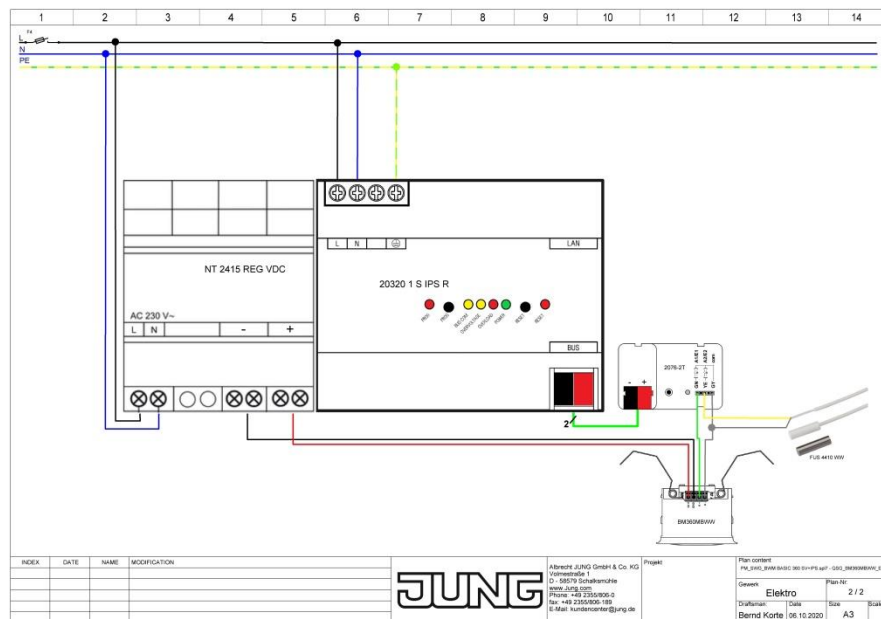
Device	Ref. no.	
	1 x KNX power supply with IP interface (320 mA)	20320 1S IPS R
	1 x motion detector mini basic (BM360MBWW)	BM 360 MB WW
	1 x KNX push-button interface (2076-2T / 2076-4T)	2076-2 T
	1 x magnet contact (FUS4410WW / FUS4410BR)	FUS 4410 WW

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1. System setup and possible variants

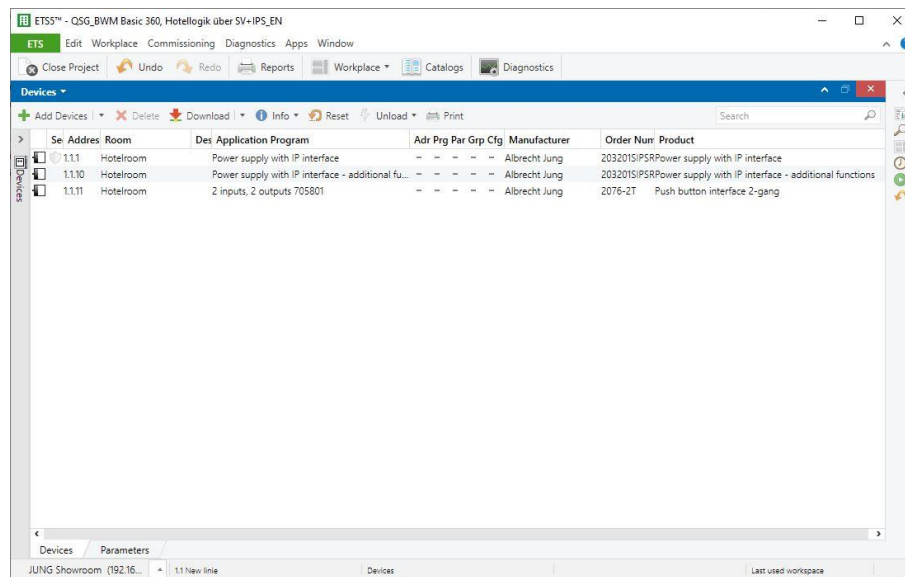
Wiring diagram



- Please only use the power supply with IP interface
- Please use the power supply for example to supply the motion detector mini basic
- To record the switching state of the motion detector mini basic, please use for example the 2-gang push-button interface. Alternatively, you can also use the 4-gang variant.
- Connect the motion detector mini basic to the push-button interface and power supply according to the technical documentation.
- Likewise connect the door contact to the push-button interface according to the technical documentation.

2. Open / edit ETS project

Open / edit ETS project



- Start the ETS and create a new project. Alternatively, use your previously created project and edit these devices
- Add the required devices to your project
 - 20 320 1S IPS R
 - Main application
 - Additional application logic
 - 2076-2 T

3. Parameter processing

Parameters of the power supply with IP interface ->main application



- No changes need to be carried out to this application for this example
- *Adjust the other parameters according to your requirements (not necessary for this example)*

Parameters of the power supply with IP interface ->additional application logic

1.1.10 Power supply with IP interface - additional functions > Logic functions > Presence monitoring

KNX Secure

Device information

General

Logic functions

Presence monitoring

Type of presence monitoring

☐ With key card holder

☒ With presence detector

Display flowchart

No display

Presence monitoring with presence detector

The Welcome mode describes the operation of trigger 1 (e.g. door contact) with fixed trigger 2 (presence detector). A light scene of a linked actuator can be chosen.

The linked room controller remains in "Comfort" or "Standby" mode until presence is detected.

Activation trigger 1 (e.g. door contact or switch) by

Switch to Off

Number of presence detectors (all presence detectors are OR linked)

1

Scene Welcome before presence detection

✓

Activation time Welcome (s)

30

Output value (scene) Welcome

1

Output value (scene) if presence mode is not active during that time (no presence detected)

2

Scene Presence after presence detection

✓

Output value (scene) Presence

3

Switching to operation mode room controller after presence detection

✓

Output value (operation mode)

Comfort mode (1)

Presence mode

The presence mode describes the state when a door contact is detected, although there is presence in the room.

If trigger 1 is activated again and no presence is detected within a configurable time period, the lighting is deactivated and the room controller switches to "Comfort" or "Standby" mode.

If a presence is detected, Goodbye will be aborted. Trigger 1 must be activated again to start the "Goodbye loop" again.

Scene after trigger 1 is activated again, if trigger 2 is already active

☐

Scene Goodbye when trigger 1 is activated again and no presence is detected

✓

Run-on time for trigger 2 before Goodbye scene is started (s)

240

Output value (scene) Goodbye

5

Switching to operation mode room controller Goodbye

✓

Output value (operation mode)

Standby mode (2)

Group Objects Channels Parameters

- Change to the additional application logic of the power supply with IP interface
 - Open the submenu "Logic functions"
 - Activate the item "Use presence monitoring?"
 - Open the submenu "Presence monitoring"
 - Set the parameter "Type of presence monitoring" to the value "With presence detector"
- Adjust the other parameters according to your requirements (not necessary for this example)*

Parameters of the push-button interface

1.1.11 Push button interface 2-gang > Function

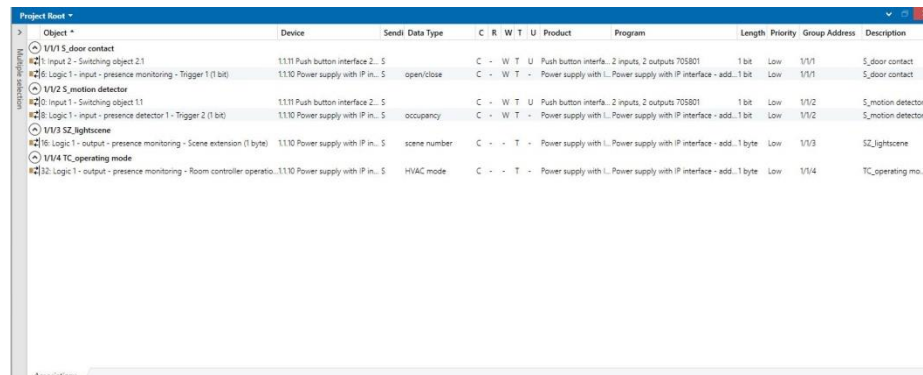
Function	Function channel 1	<input checked="" type="radio"/> binary input <input type="radio"/> output (LED max. 0.8 mA)
General	Function channel 2	<input checked="" type="radio"/> binary input <input type="radio"/> output (LED max. 0.8 mA)
Input 1		
Input 1, Disabling		
Input 2		
Input 2, Disabling		

Group Objects Parameters

- No changes need to be carried out to this application for this example
- *Adjust the other parameters according to your requirements (not necessary for this example)*

4. Create and link group addresses

Parameters of the power supply with IP interface -> main application



Object	Device	Send Data Type	C	R	W	T	U	Product	Program	Length	Priority	Group Address	Description
1/1/1 S_door contact	1.111 Push button interface 2.. S	S	-	-	-	-	-	Push button interfa.. 2 inputs, 2 outputs 705801		1 bit	Low	1/1/1	S_door contact
2/1 Input 2 - Switching object 2.1	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 bit		1 bit	Low	1/1/1	S_door contact
16 Logic 1 - input - presence monitoring - Trigger 1 (1 bit)	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 bit		1 bit	Low	1/1/1	S_door contact
1/1/2 S_motion detector	1.111 Push button interface 2.. S	S	-	-	-	-	-	Push button interfa.. 2 inputs, 2 outputs 705801		1 bit	Low	1/1/2	S_motion detector
2/1 Input 1 - Switching object 1.1	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 bit		1 bit	Low	1/1/2	S_motion detector
8 Logic 1 - input - presence detector 1 - Trigger 2 (1 bit)	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 bit		1 bit	Low	1/1/2	S_motion detector
1/1/3 SZ_lightscene	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 byte		1 byte	Low	1/1/3	SZ_lightscene
16 Logic 1 - output - presence monitoring - Scene extension (1 byte)	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 byte		1 byte	Low	1/1/3	SZ_lightscene
1/1/4 TC_operating mode	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 byte		1 byte	Low	1/1/4	TC_operating mo..
32 Logic 1 - output - presence monitoring - Room controller operatio..	1.110 Power supply with IP in.. S	S	-	-	-	-	-	Power supply with IP interface - add.. 1 byte		1 byte	Low	1/1/4	TC_operating mo..

- Create new group addresses for
 - door contact
 - motion detector
 - lightscene
 - operating mode
- Link object "6 Logic 1 - Input - Presence monitoring trigger 1" of the additional application logic of the power supply with IP interface to the door contact group address
- Link object "8 Logic 1 - Input - Presence detector 1 trigger 2" of the additional application logic of the power supply with IP interface to the motion detector group address
- Link object "16 Logic 1 - Output - Presence monitoring scene extension" of the additional application logic of the power supply with IP interface to the lightscene group address
- Link object "32 Logic 1 - Output - Presence monitoring room controller operating mode" of the additional application logic of the power supply with IP interface to the operating mode group address
- Link object "0 Input 1 Switch object 1.1" of the push-button interface to the motion detector group address
- Link object "1 Input 2 Switch object 2.1" of the push-button interface to the door contact group address
- *To finish, please program all the devices involved.*