

# Hűtés/Fűtés manuális vezérlése

Az alábbi példában megvalósítjuk a hűtés-fűtés átkapcsolást és manuális-automata üzemmód váltást. Ez azt jelenti, hogy manuális módban a 4 hőmérséklet között válthatunk (normal/minimum/attenuation/comfort) és amíg vissza nem kapcsoljuk automatára vagy át nem váltjuk másik hőmérsékletre, addig megtartja a kiválasztott értéket a rendszer.

## 1. Eszközök kiválasztása

### **EST3 (014B47)**

- ▲ Control unit with touch screen, 12x input, 12x output, 6x LED, 4 inputs for RGB color control, 1x output for temperature display.
  - SW1 (SW1\_hutes\_futes\_valtas)
  - SW2 (SW2\_minimum)
  - SW3 (SW3\_attenuation)
  - SW4 (SW4\_normal)
  - SW5 (SW5\_comfort)
  - SW6 (SW6\_hutes\_futes\_prog\_ki\_be\_kapcsolas)

### **SA3-06M (000020)**

- ▲ Switching unit, 6x changeover contact 8A, LED status indication relays, manual control, installation on DIN rail, 3-MODULE.
  - RE1 (RE1)
  - RE2 (RE2)
  - RE3 (RE3)
  - RE4 (RE4\_hoforras)
  - RE5 (RE5\_futesszelep)
  - RE6 (RE6 klima)

### **Működés röviden:**

Rövid gombnyomásra váltunk hűtés-fűtés üzemmódot. Az EST3 Blue1 LED dióda jelzi a hűtés, Red1 LED dióda jelzi a fűtés üzemállapotot.

A 4 hőmérséklet között szintén rövid gombnyomással váltunk. Ha mind a 4 gombot kikapcsoljuk (háttérfény egyiknél sem világít), akkor automata módban működik a rendszer, azaz az időprogramot futtatja.

Az SW6 gomb szintén rövid gombnyomással engedélyezi vagy tiltja le a rendszerprogramokat.

Az SW2-SW6 gombok bekapcsolt állapotait visszajelezzük a gombok háttérfény világításával.

Hő érzékelőnek itt most egy WSB3-40 belső érzékelőjét használjuk.

### **WSB3-40 (000024)**

- ▲ Wall group controllers with short control Double - 2x two-button, built-in temperature sensor, 1x temperature input, 2x digital input.
  - Up1 (Up1)
  - Down1 (Down1)
  - Up2 (Up2)
  - Down2 (Down2)
  - Green1 (Green1)
  - Red1 (Red1)
  - Green2 (Green2)
  - Red2 (Red2)
  - Inter-Therm (hoerzekelo)
  - AIN1-AIN2-Therm (AIN1-AIN2-Therm)
  - DIN1 (DIN1)
  - DIN2 (DIN2)

## 2. Funkciók összeállítása

### Functions manager

**on**  
Digital - Switch ON

---

**off**  
Digital - Switch OFF

---

**hstart**  
Heat/Cool - Start time program

---

**hstop**  
Heat/Cool - Stop time program

---

**switch**  
Digital - Switch value

---

**comfort**  
Heat/Cool - Set COMFORT

---

**normal**  
Heat/Cool - Set NORMAL

---

**minimum**  
Heat/Cool - Set MINIMUM

---

**attenuate**  
Heat/Cool - Set ATTENUATE

---

**settimeprog**  
Heat/Cool - Set time program

## 3. Rendszerprogramok összeállítása

System manager

Timers Counters Heat/Cool areas System programs System bits System integers

Programs

- System START (Periodical)
- futesprog (Heat/Cool)
- hutesprog (Heat/Cool)

Program detail

Program type: HeatCool  
Program name: futesprog

Heat/Cool range

Type	Minimum	Attenuation	Normal	Comfort
Heating	Heating value: 15.0	18.0	20.0	24.0
Cooling value				

Heat/Cool program

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

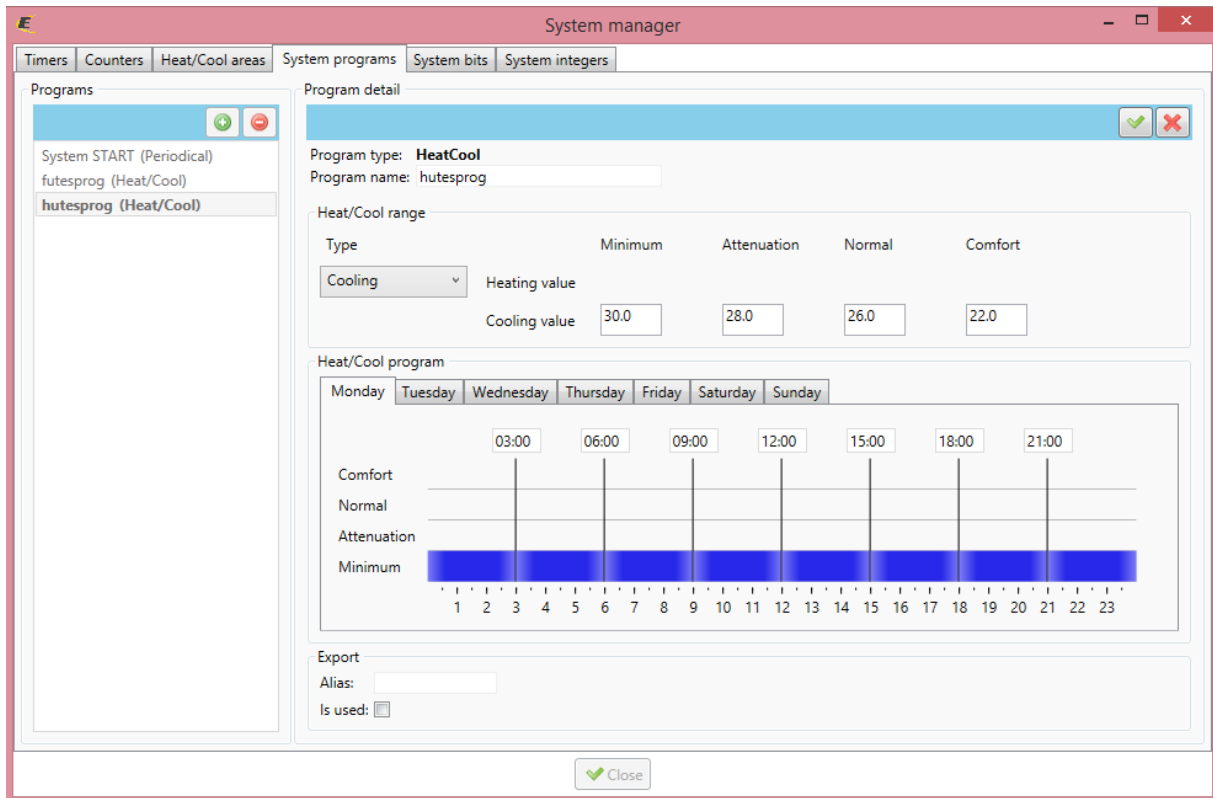
03:00 06:00 09:00 12:00 15:00 18:00 21:00

Comfort  
Normal  
Attenuation  
Minimum

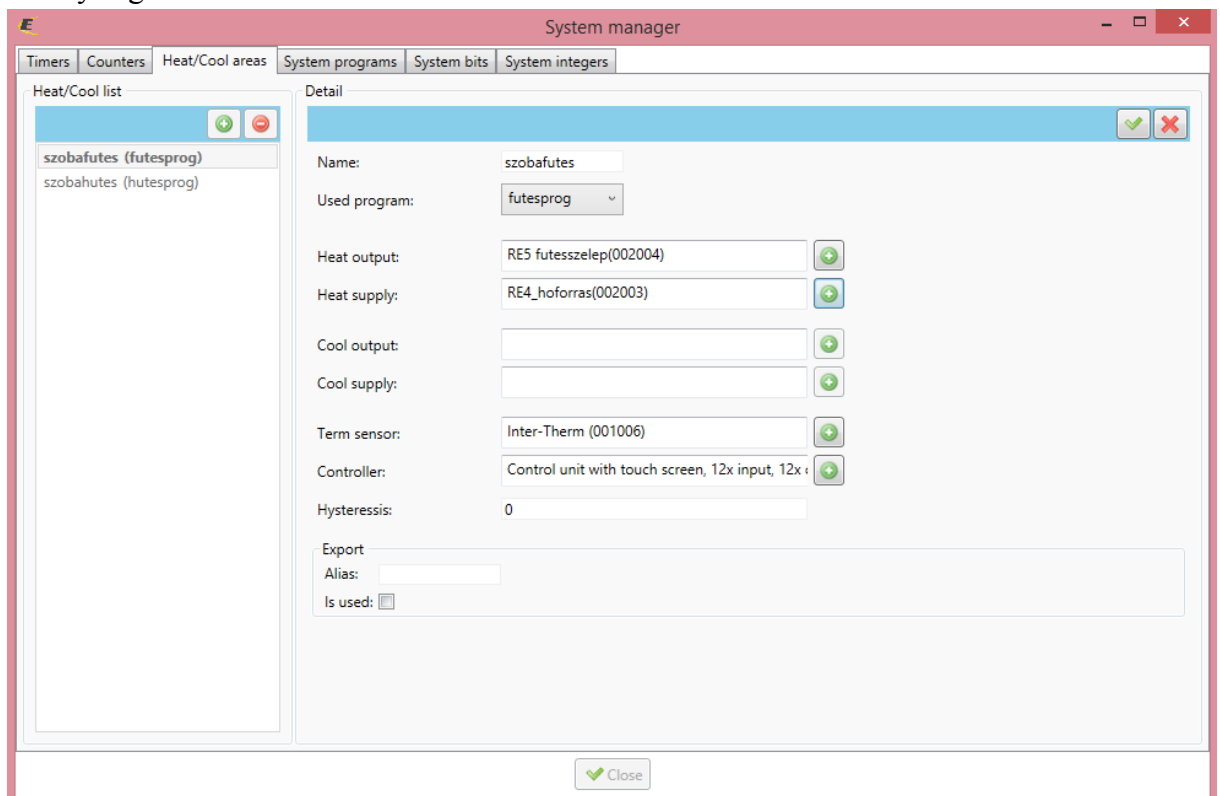
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

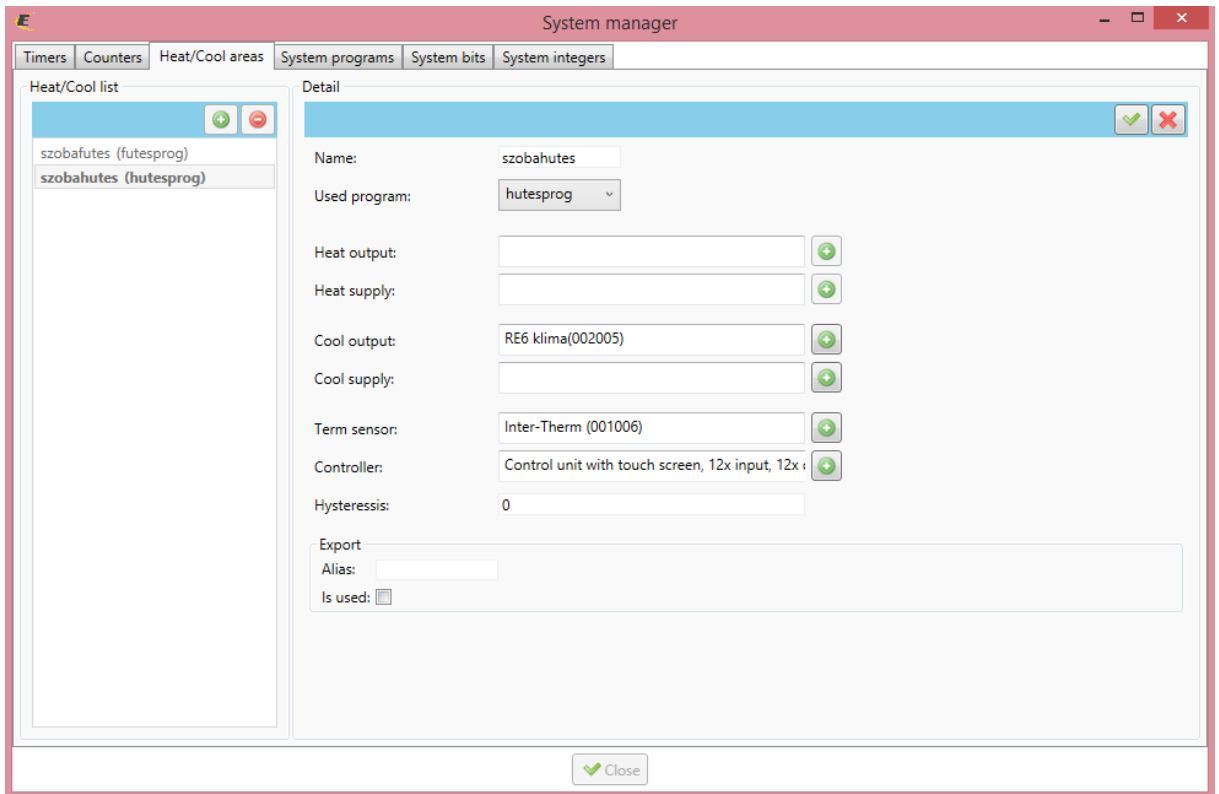
Export  
Alias:   
Is used:

Close



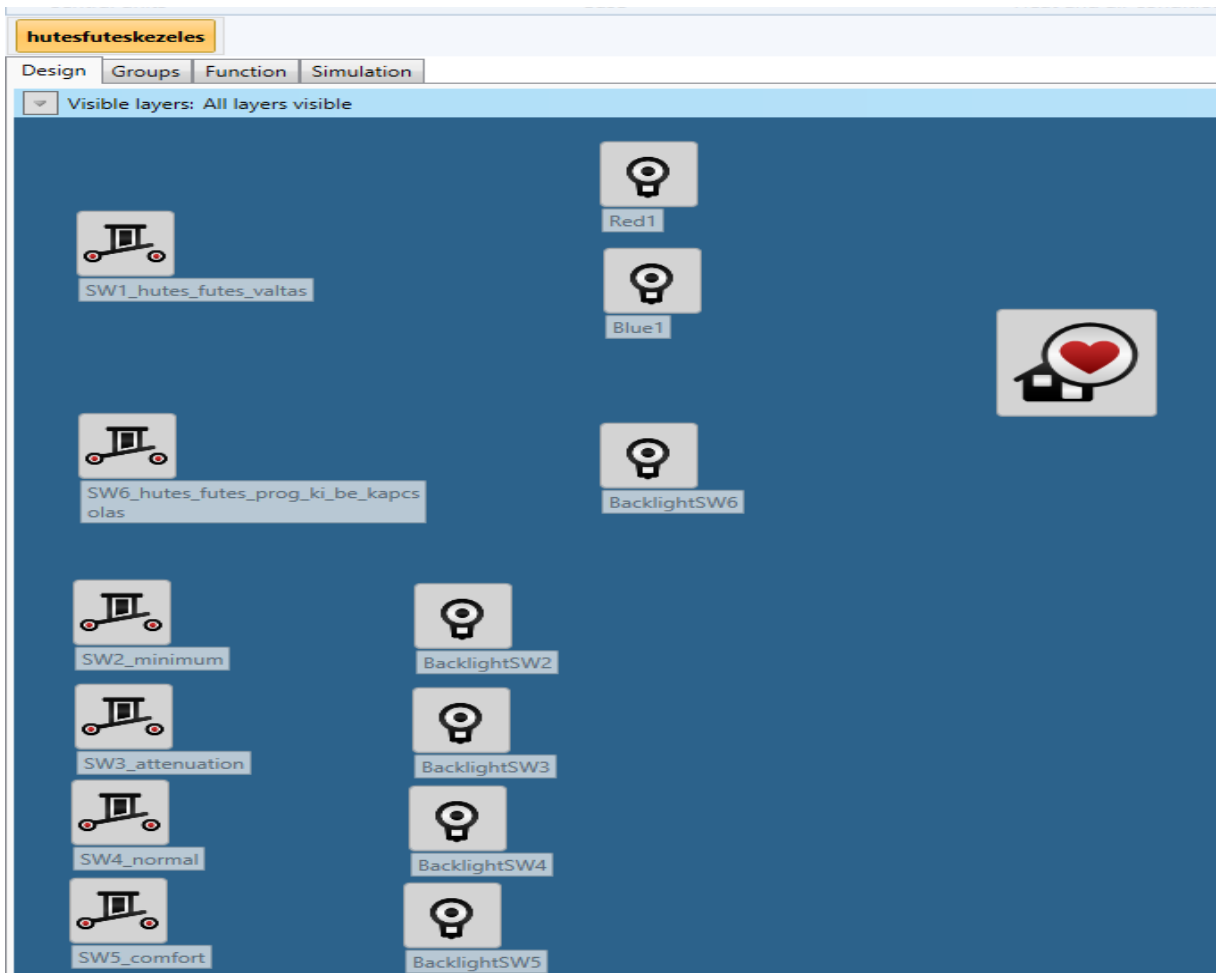
#### 4. A helyiség felvétele





## 5. Huzalozás

Ikonok kiválasztása:



Összekötésnél ahol szükségesek feltételek, ott jelezzük.

- Hűtés-fűtés váltás kijelzése:

The screenshot shows a 'Wire' configuration window with the following details:

- Remove wire:
- Actor: **SW1\_hutes\_futes\_valtas** (014B47\_4096)
- Consumer: **Red1** (014B47\_8208)
- Name: ki-be
- Description:
- Functions:

Action	User defined function	
Short down	switch (50593795)	

Buttons:

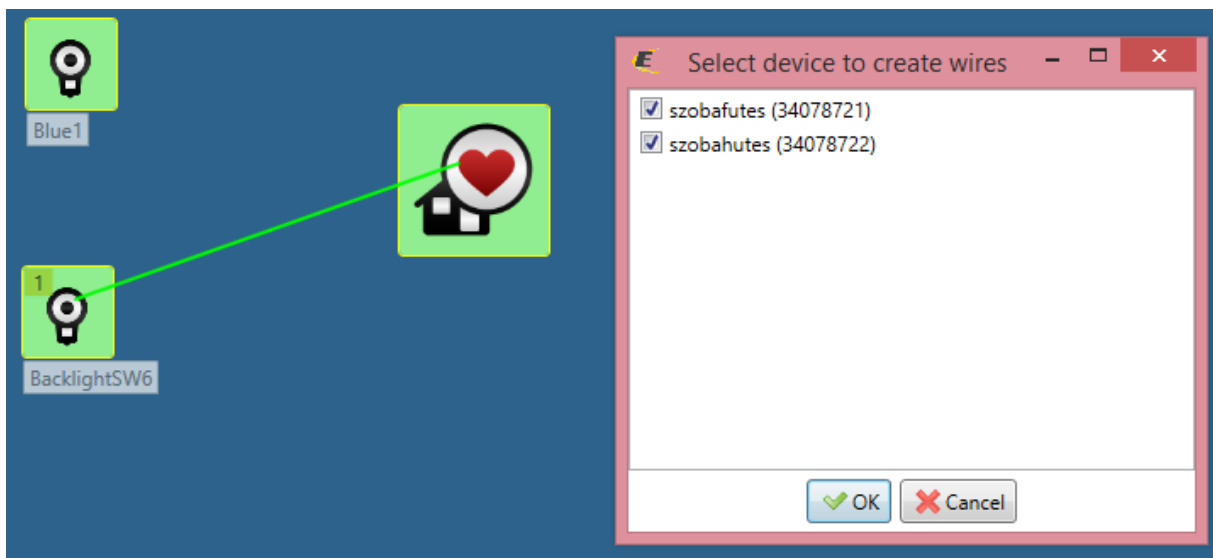
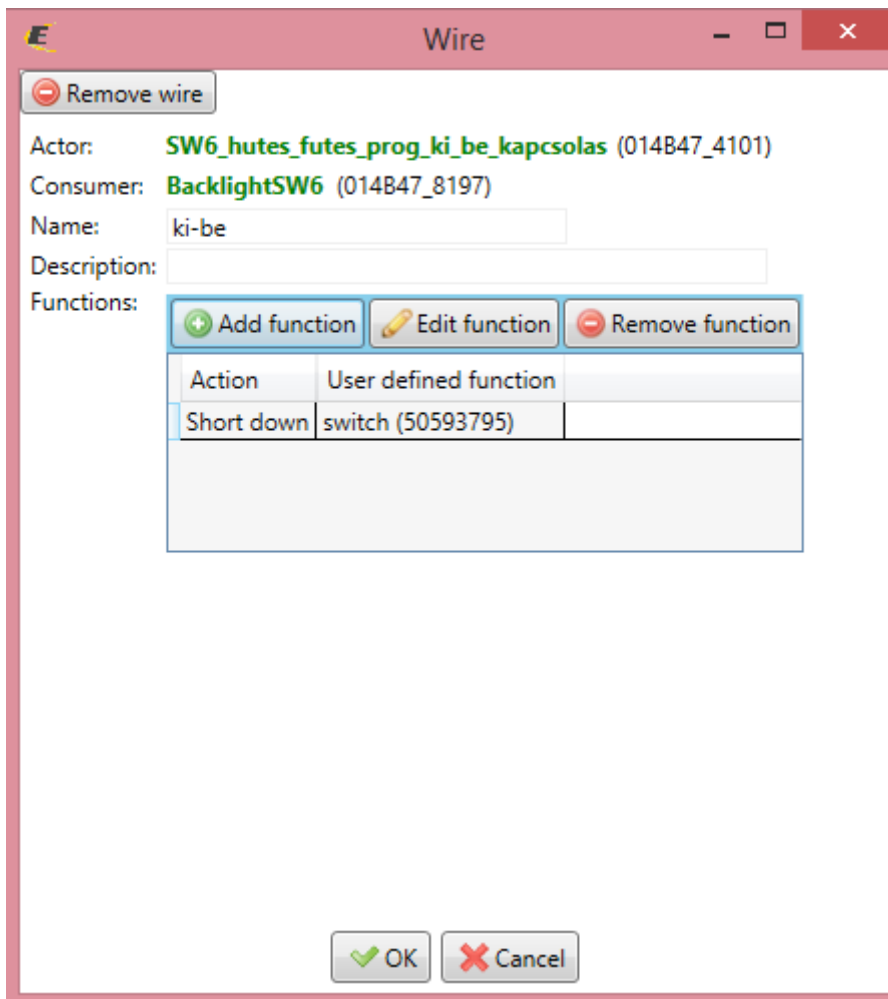
The screenshot shows a 'Wire' configuration window with the following details:

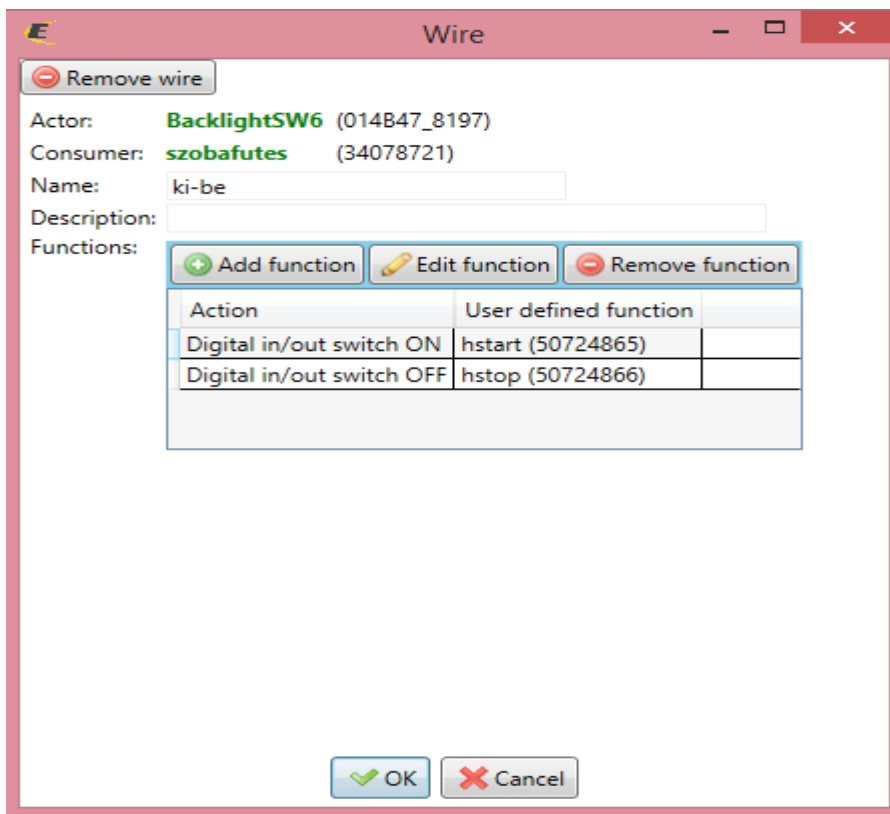
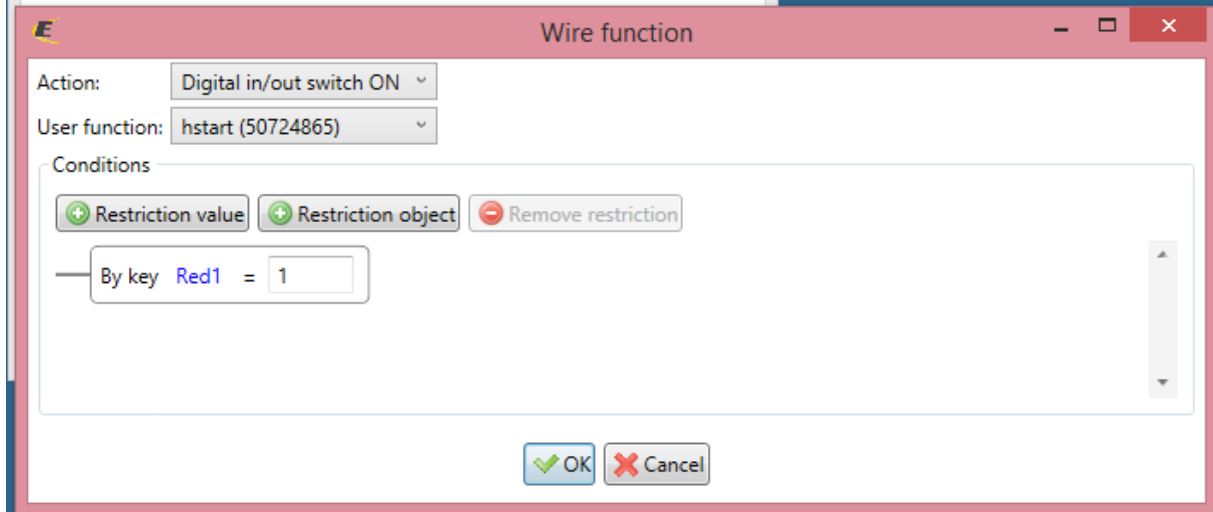
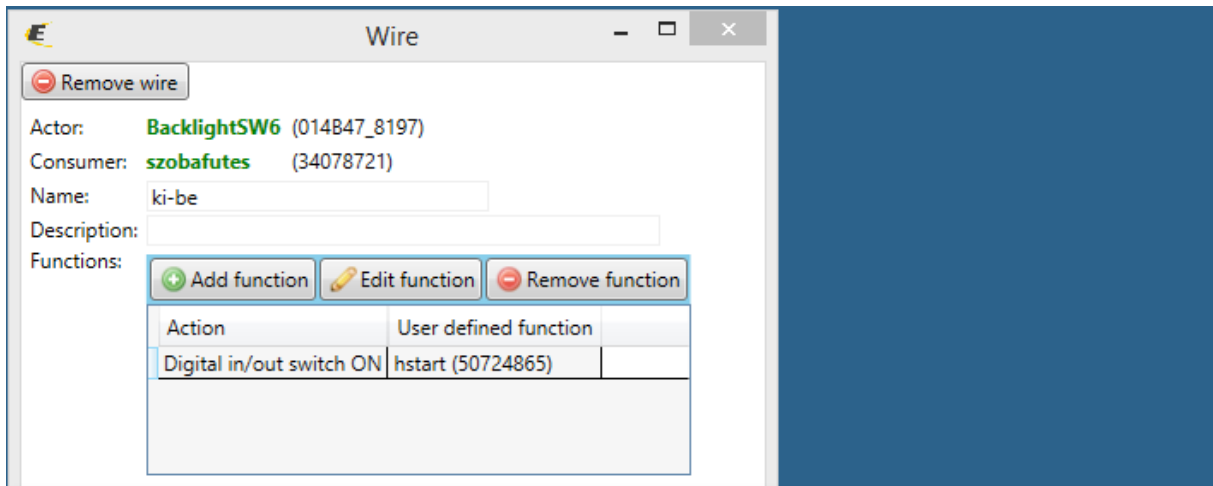
- Remove wire:
- Actor: **Red1** (014B47\_8208)
- Consumer: **Blue1** (014B47\_8212)
- Name: valtas
- Description:
- Functions:

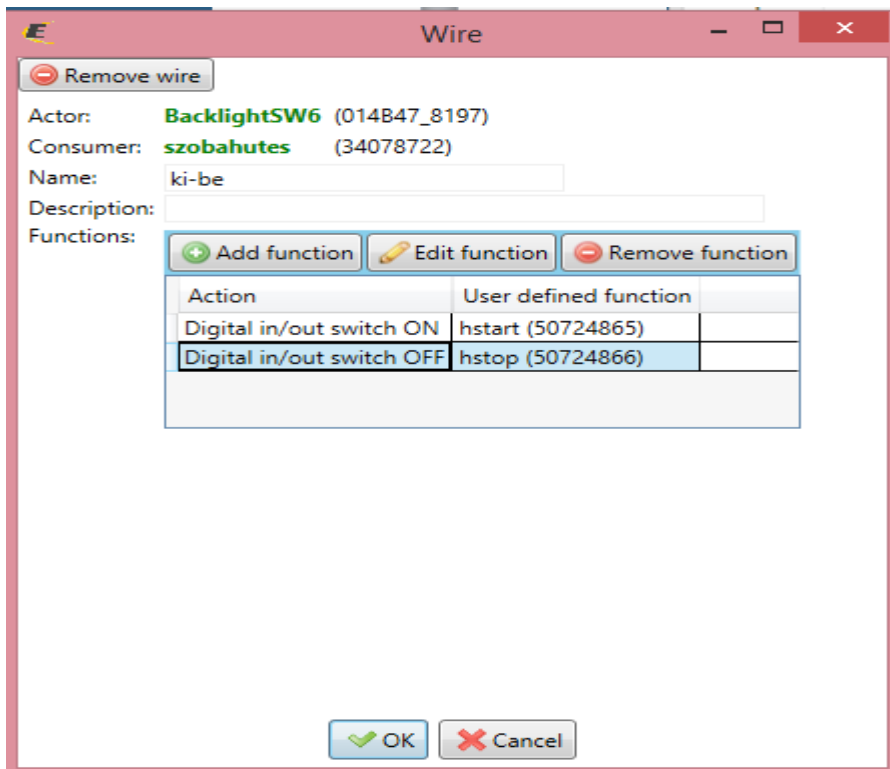
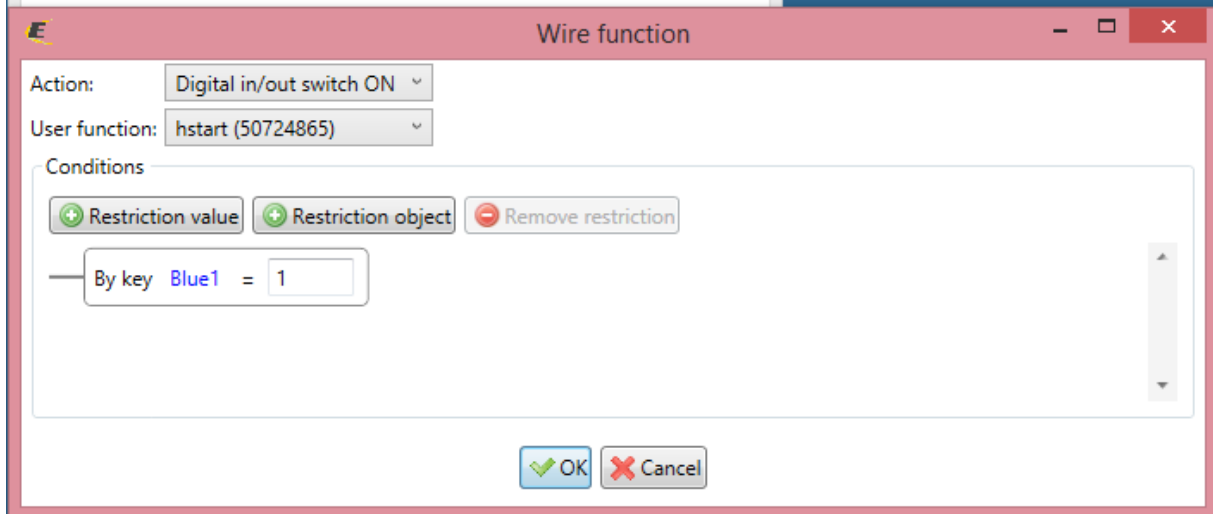
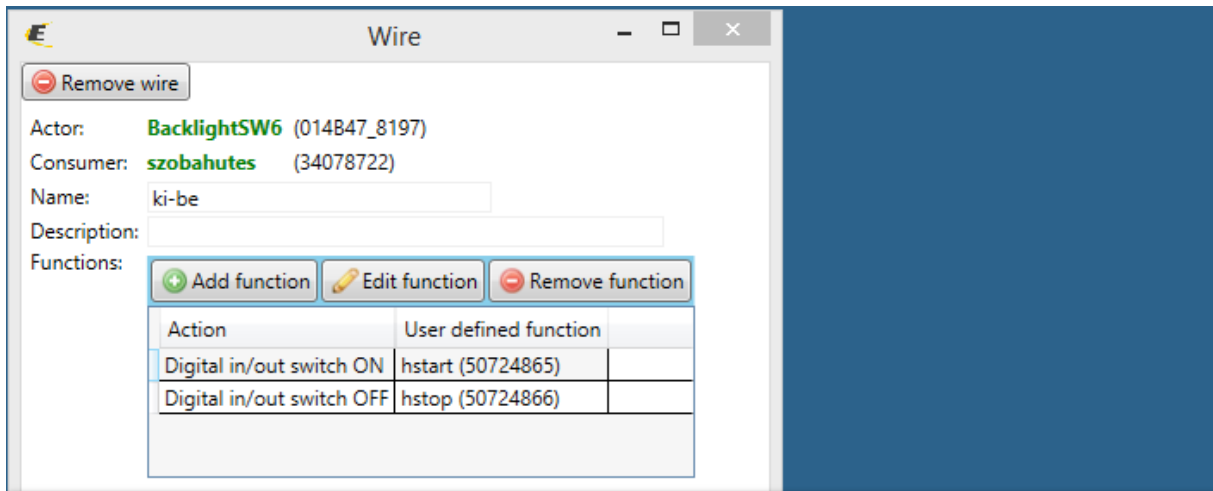
Action	User defined function	
Digital in/out switch ON	off (50593794)	
Digital in/out switch OFF	on (50593793)	

Buttons:

-Hűtés-fűtés ki-be kapcsolása:

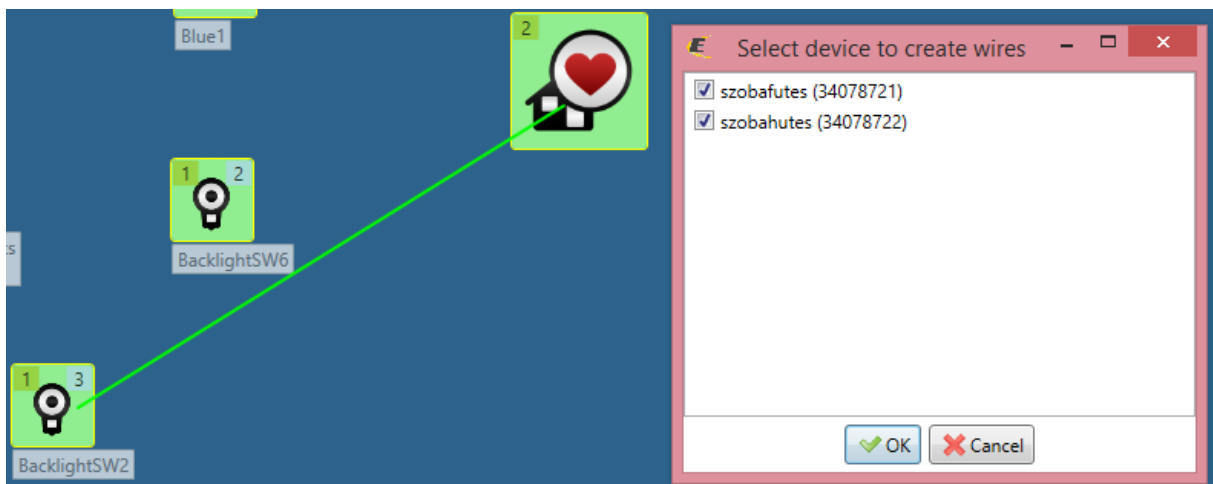
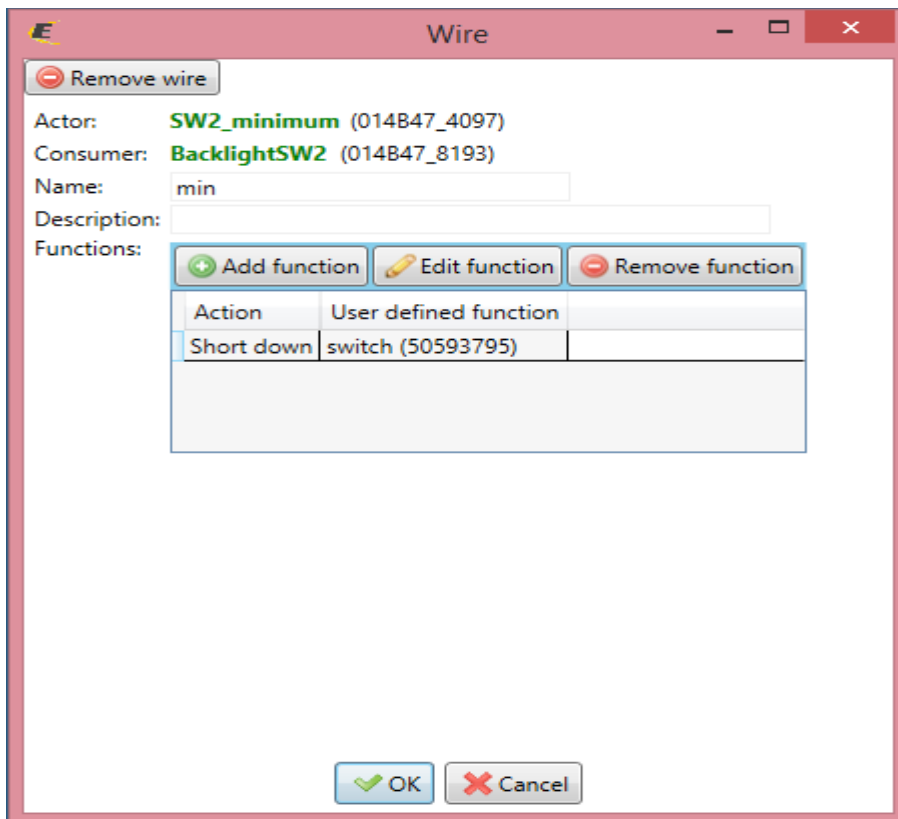


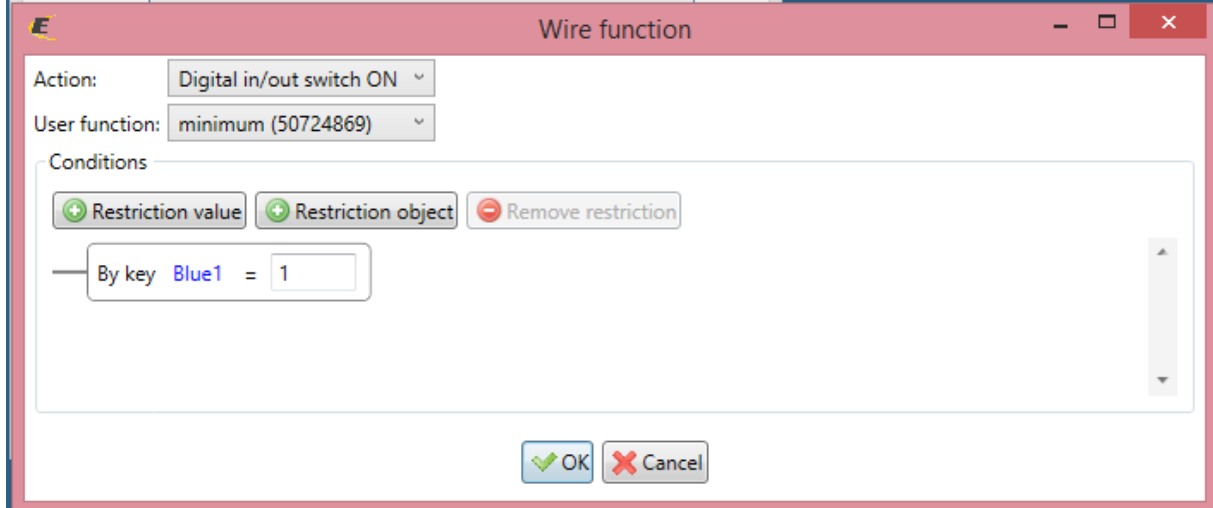
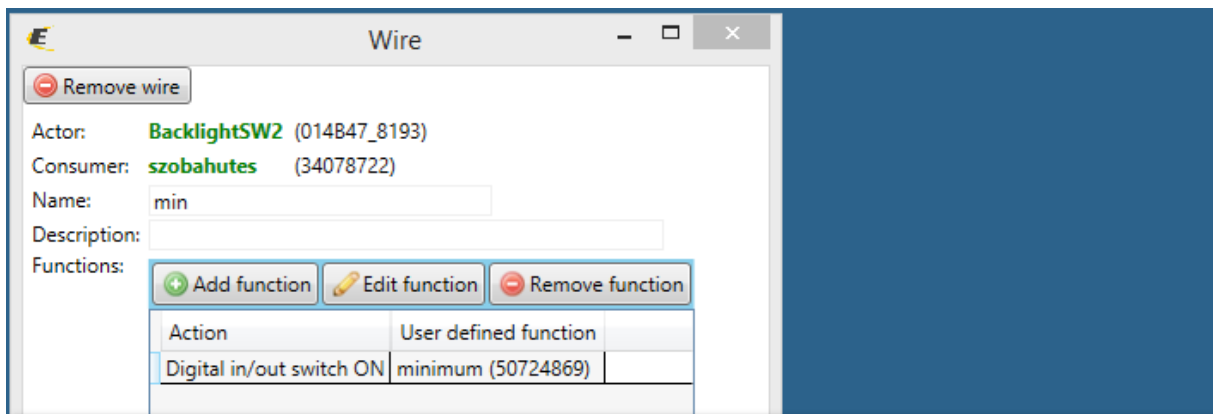
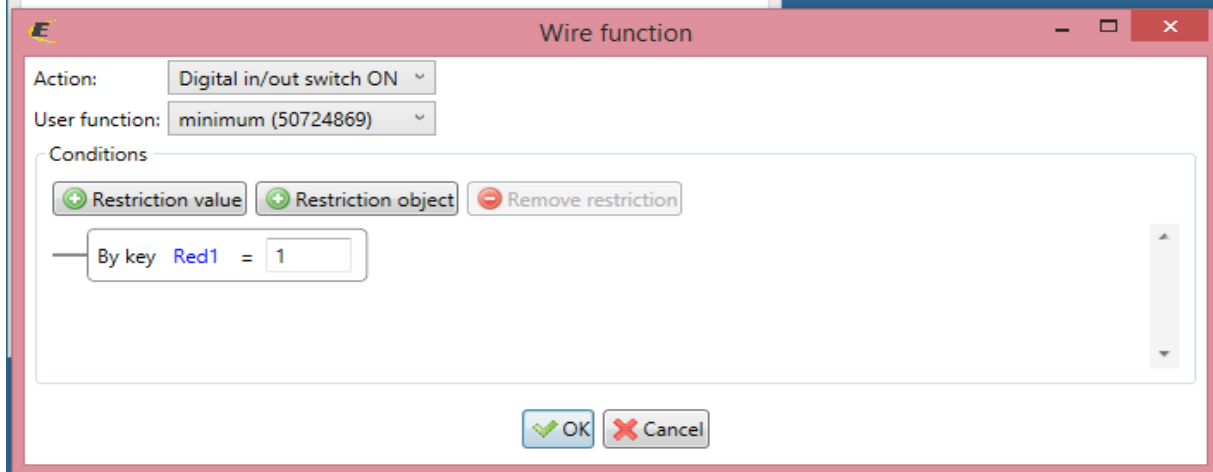
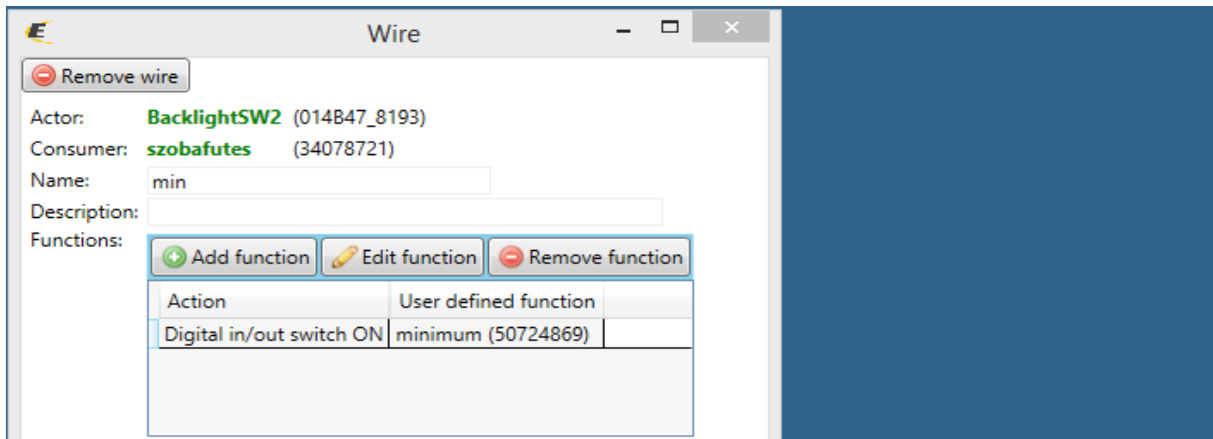






-Minimum hőmérséklet kezelése:





-háttérfények reteszelése:

**Wire**

Remove wire

Actor: **BacklightSW2** (014B47\_8193)  
Consumer: **BacklightSW3** (014B47\_8194)  
Name: ki  
Description:  
Functions:

Add function Edit function Remove function

Action	User defined function
Digital in/out switch ON	off (50593794)

OK Cancel

**Wire**

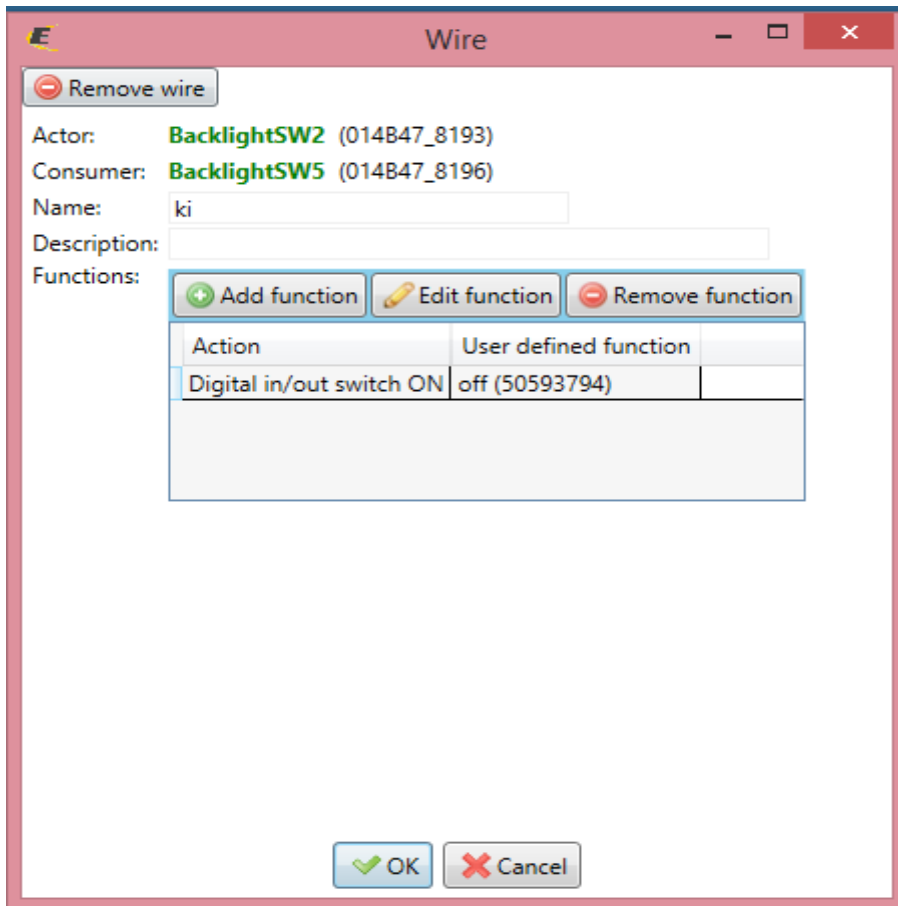
Remove wire

Actor: **BacklightSW2** (014B47\_8193)  
Consumer: **BacklightSW4** (014B47\_8195)  
Name: ki  
Description:  
Functions:

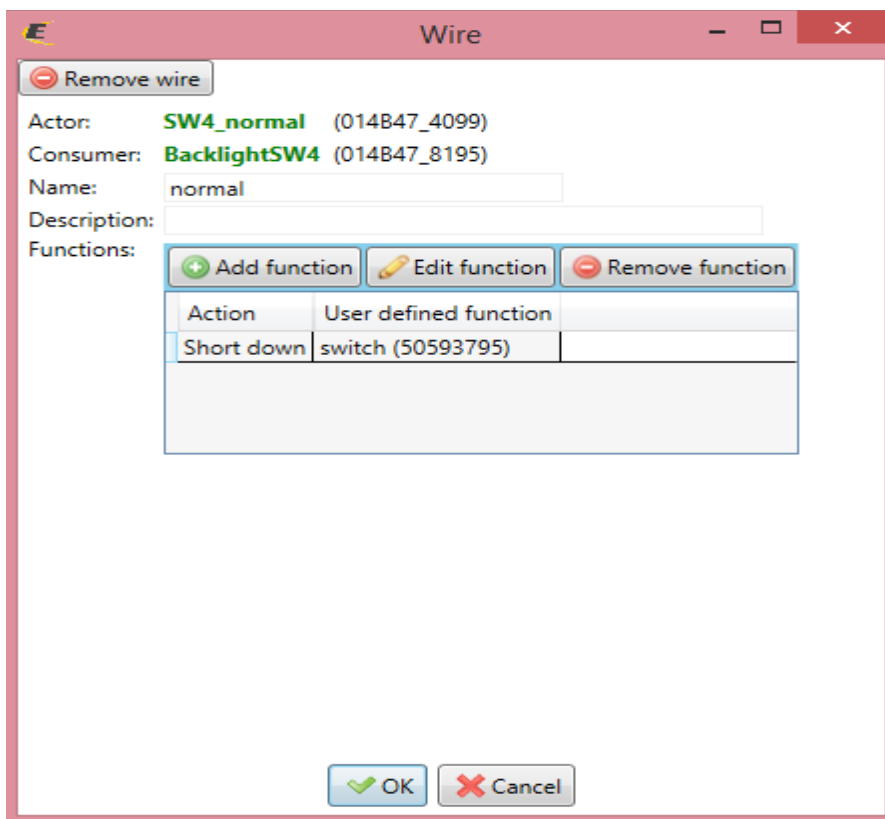
Add function Edit function Remove function

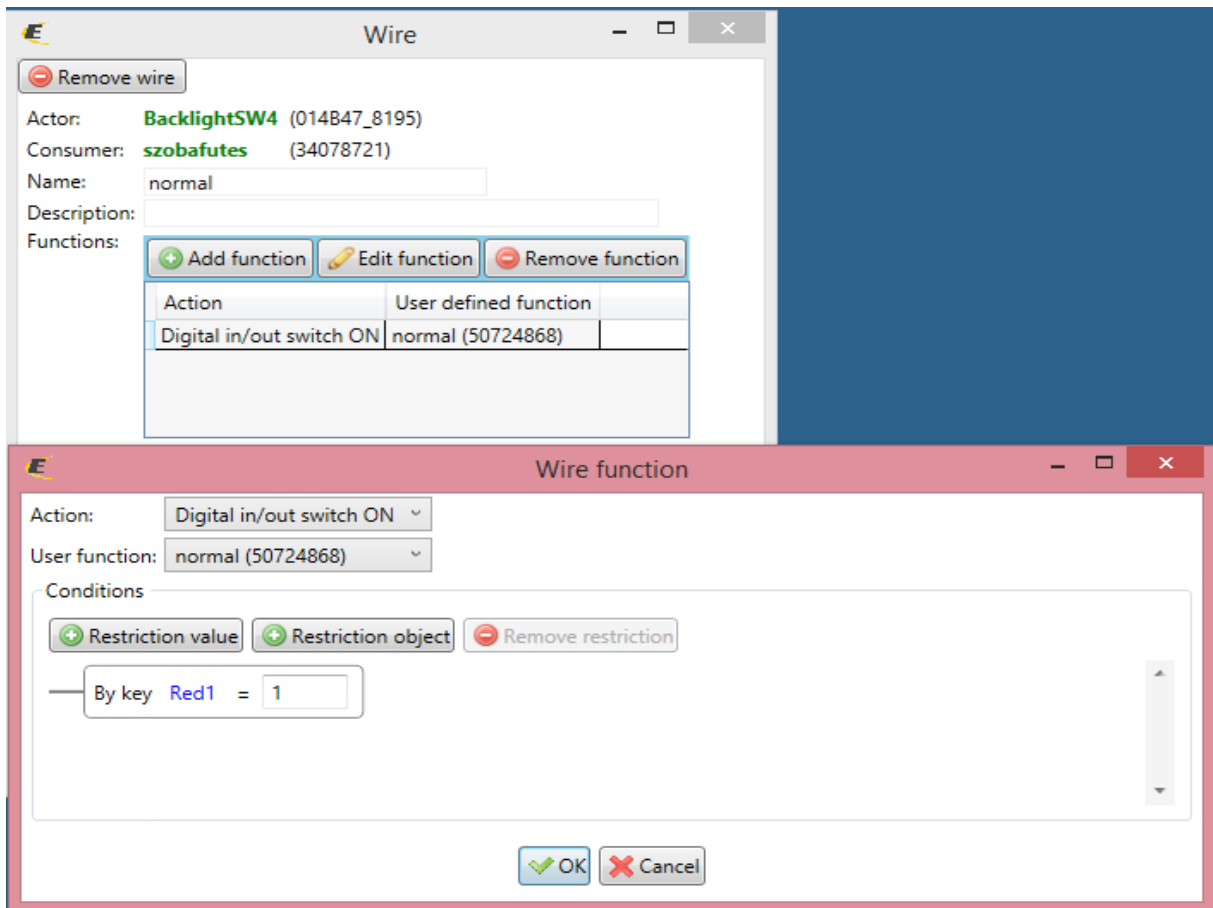
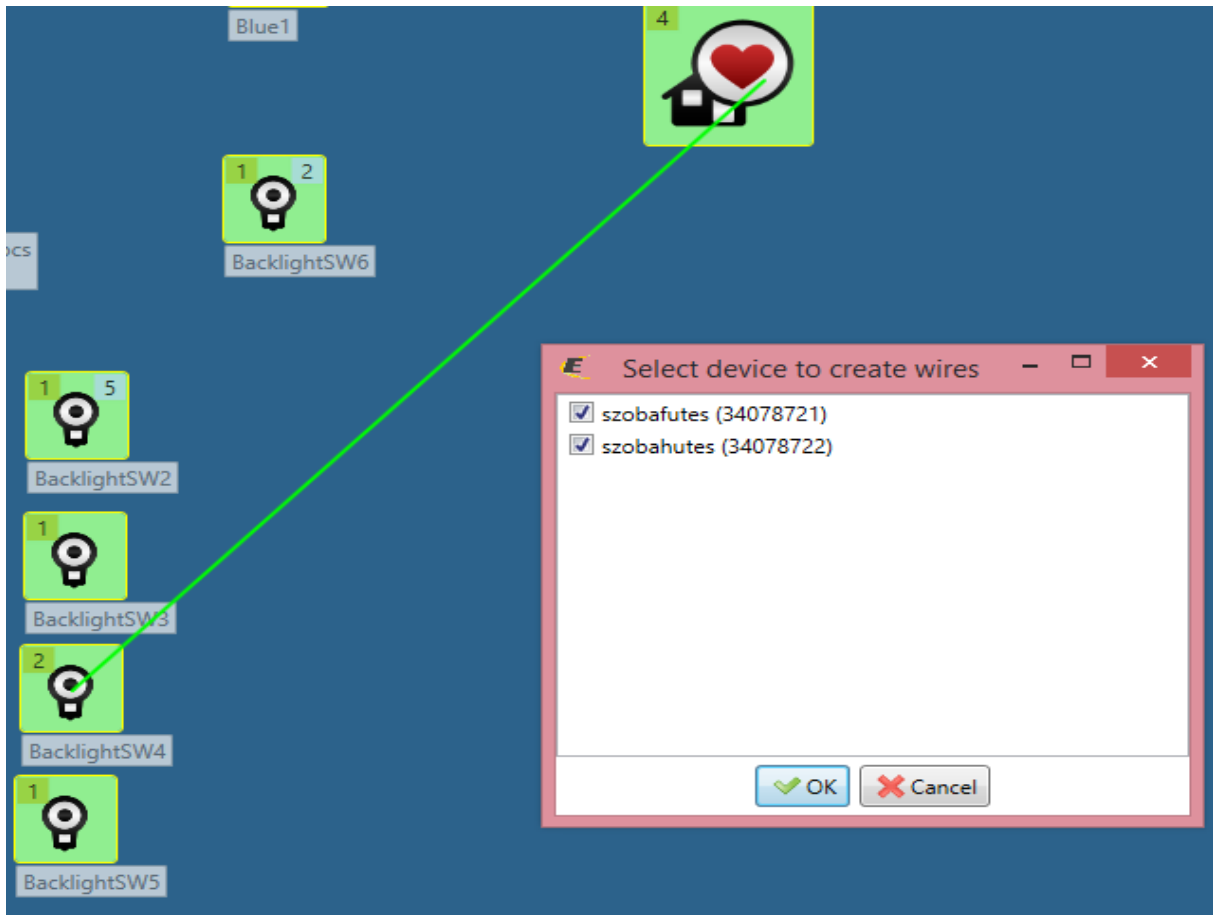
Action	User defined function
Digital in/out switch ON	off (50593794)

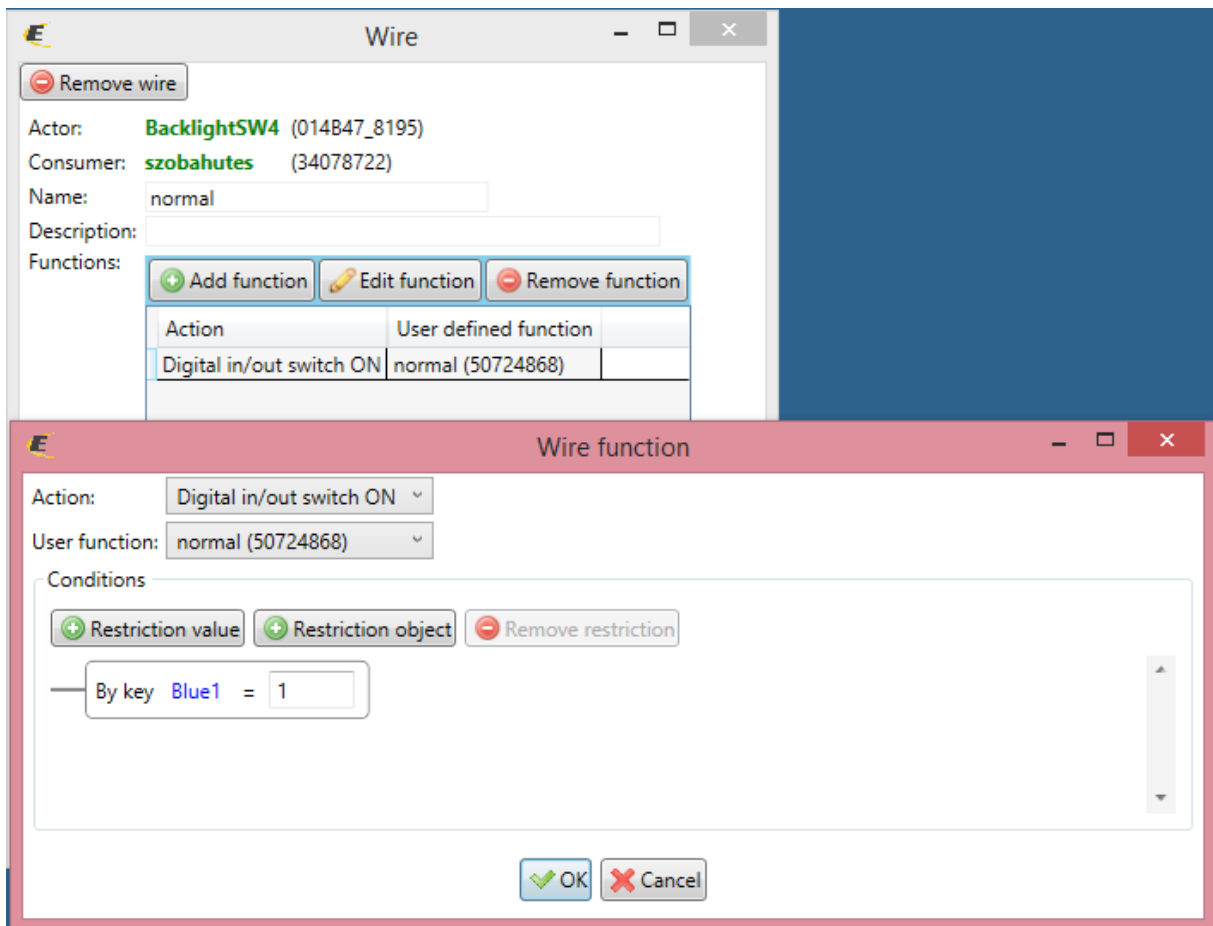
OK Cancel



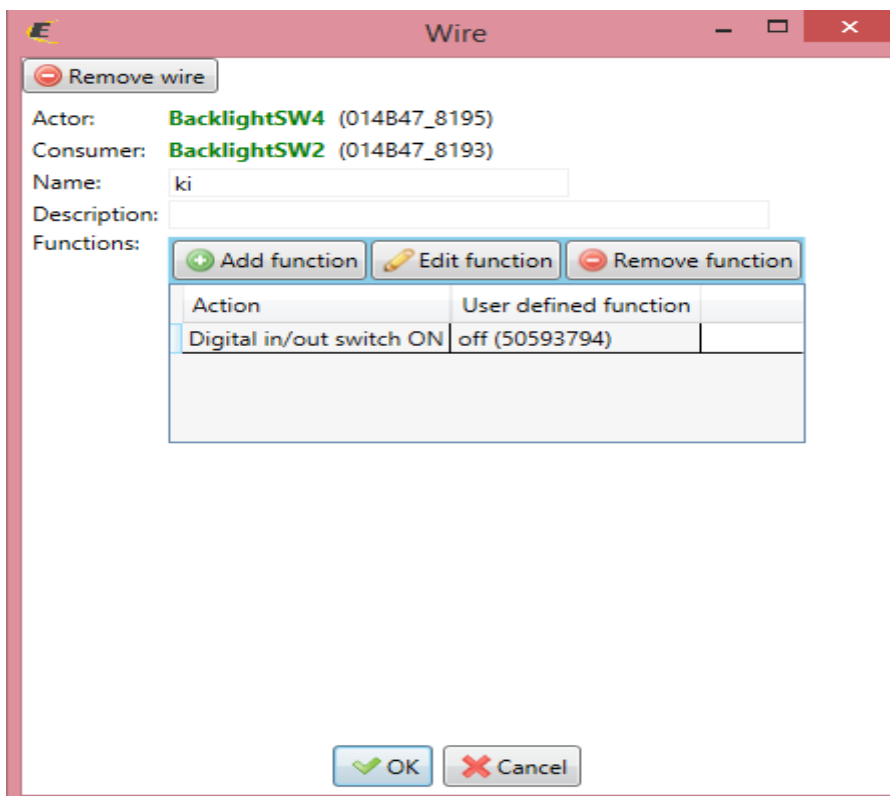
-Normal hőmérséklet kezelése:







-háttérfények reteszélése:



**Wire**

Remove wire

Actor: **BacklightSW4** (014B47\_8195)  
 Consumer: **BacklightSW3** (014B47\_8194)  
 Name: ki  
 Description:   
 Functions:

Action	User defined function
Digital in/out switch ON	off (50593794)

**Wire**

Remove wire

Actor: **BacklightSW4** (014B47\_8195)  
 Consumer: **BacklightSW5** (014B47\_8196)  
 Name: ki  
 Description:   
 Functions:

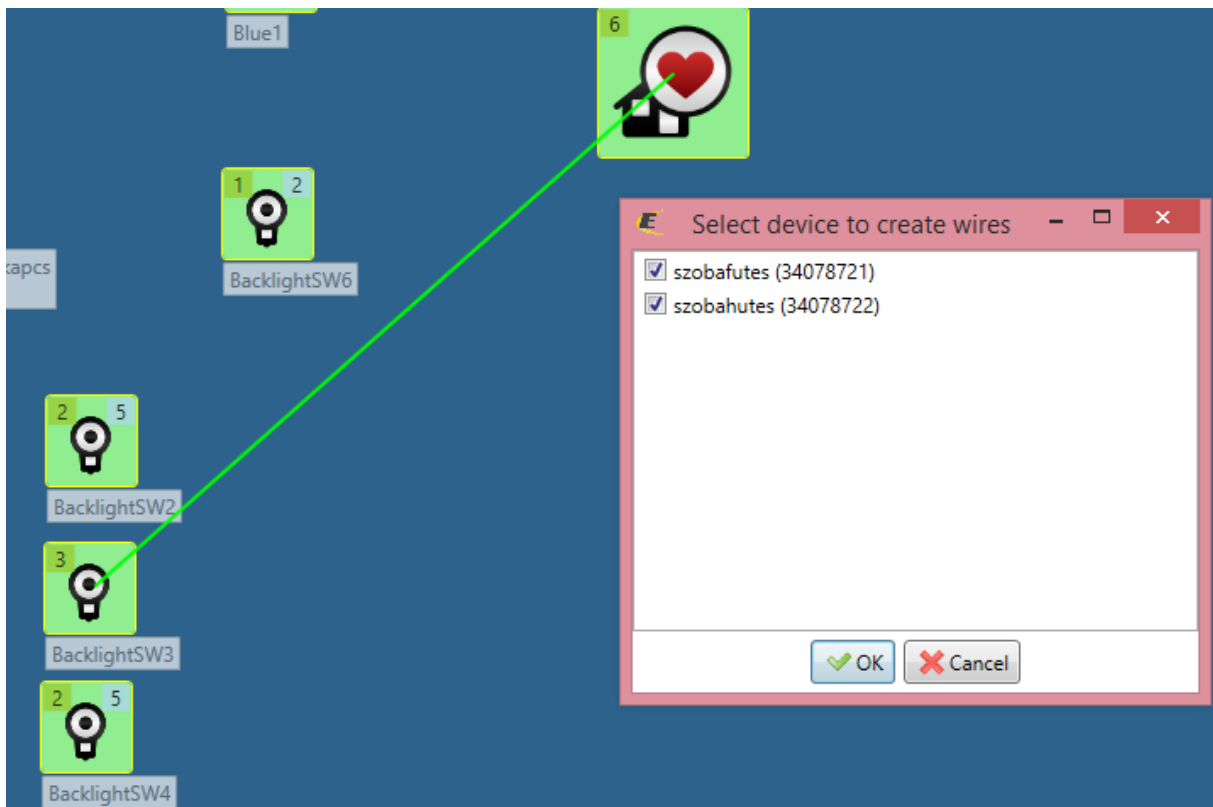
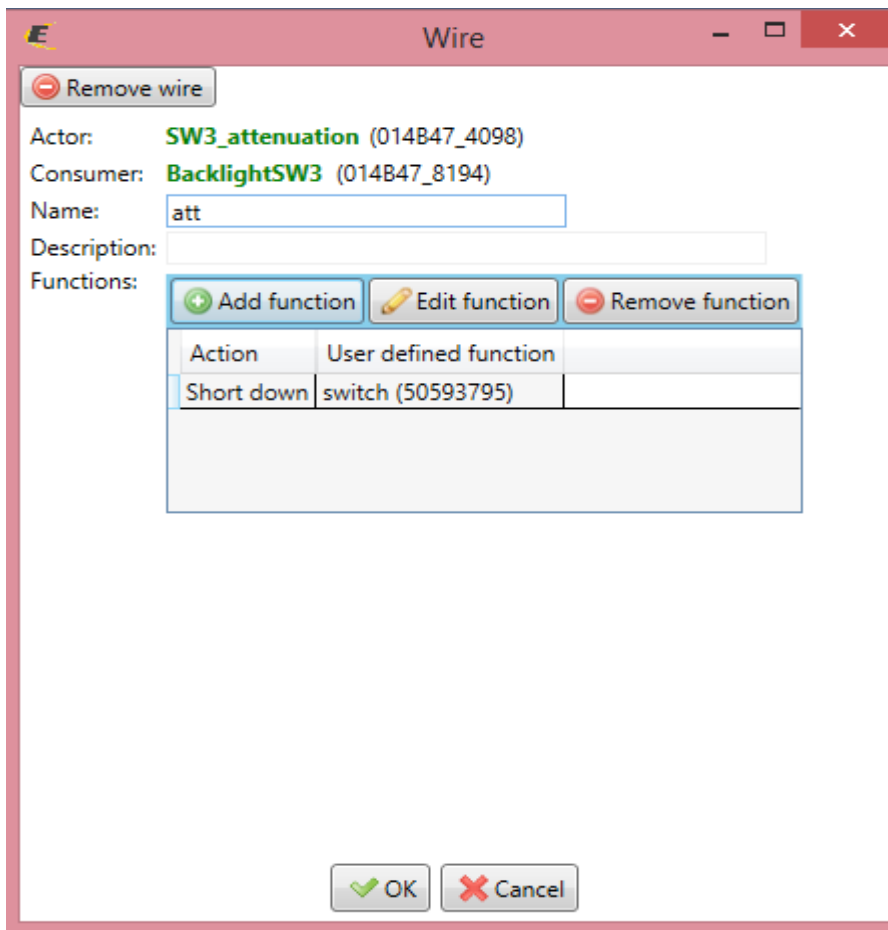
Action	User defined function
Digital in/out switch ON	off (50593794)

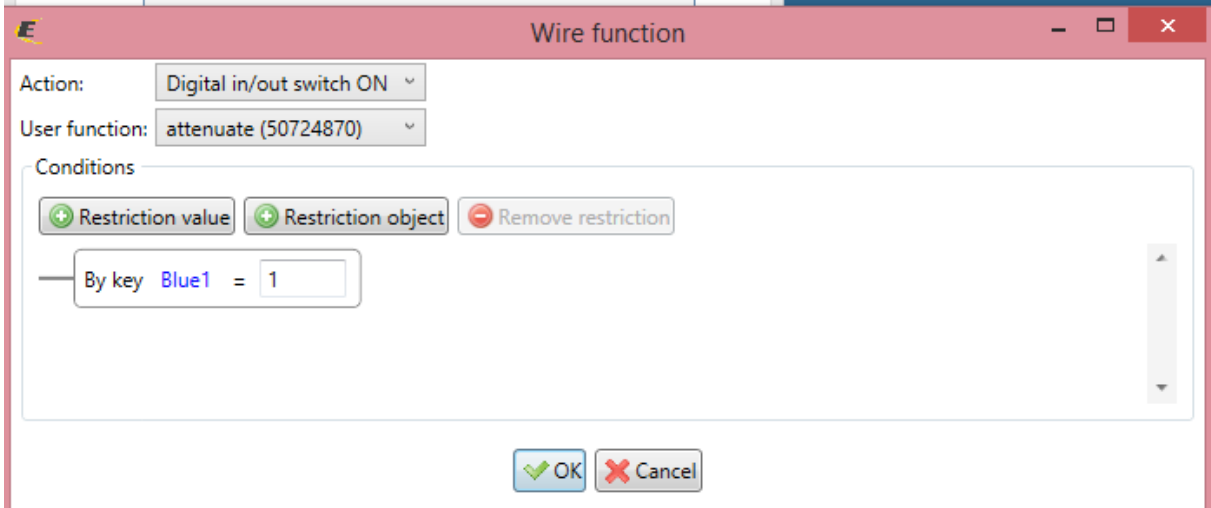
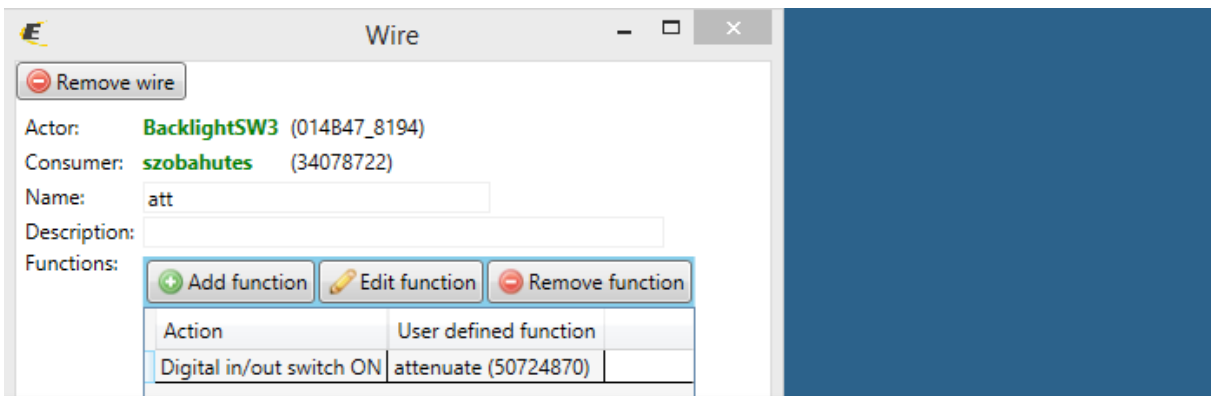
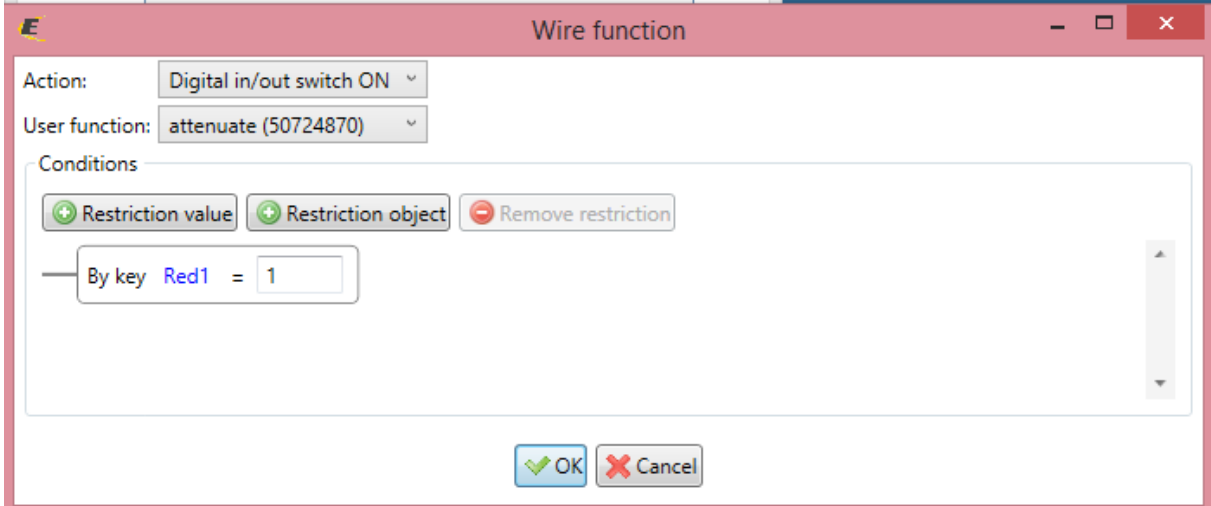
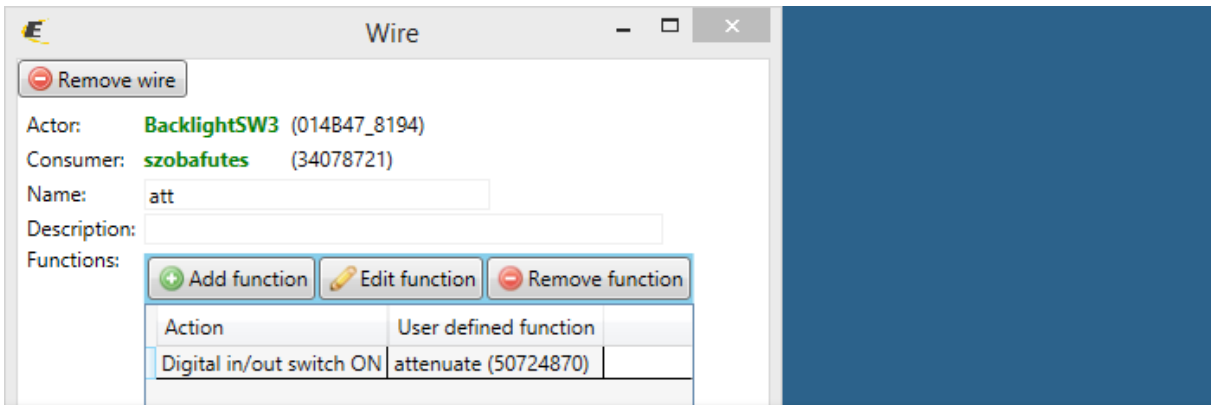
Ha eddig megvagyunk, ellenőrizzük az összekötések számát:





-Attenuation hőmérséklet kezelése:





-háttérfények reteszelése:

Remove wire

Actor: **BacklightSW3** (014B47\_8194)  
Consumer: **BacklightSW2** (014B47\_8193)  
Name: ki  
Description:  
Functions:

Add function Edit function Remove function

Action	User defined function
Digital in/out switch ON	off (50593794)

OK Cancel

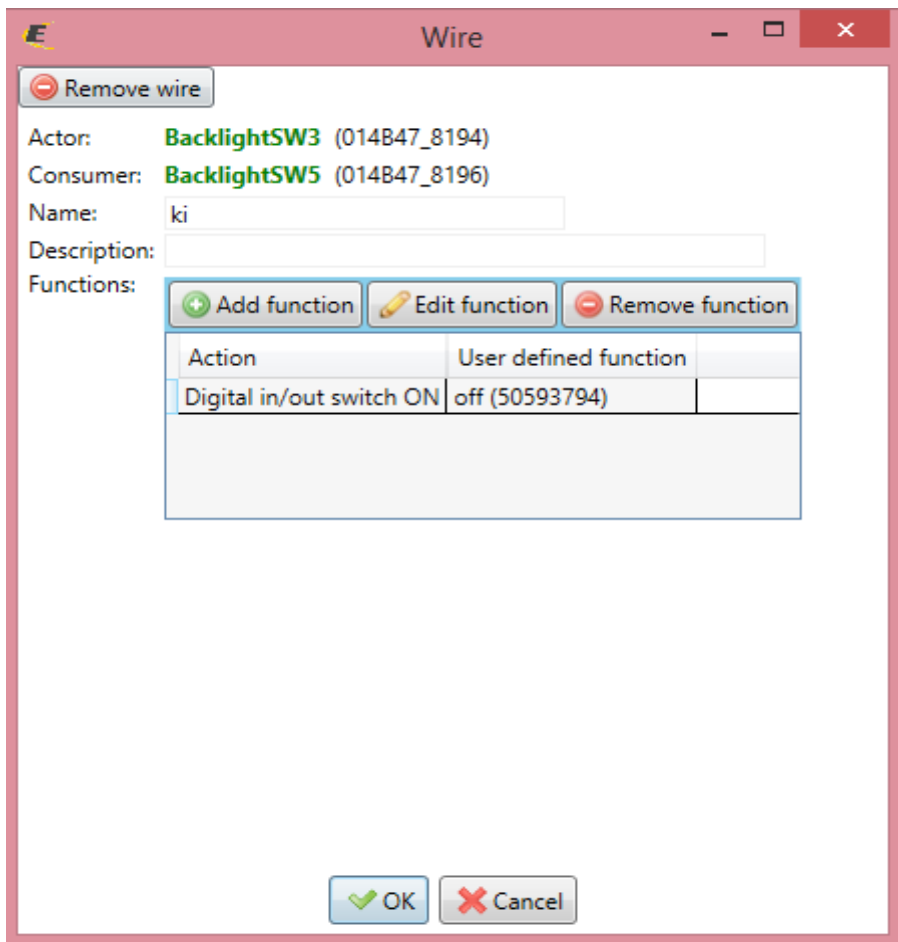
Remove wire

Actor: **BacklightSW3** (014B47\_8194)  
Consumer: **BacklightSW4** (014B47\_8195)  
Name: ki  
Description:  
Functions:

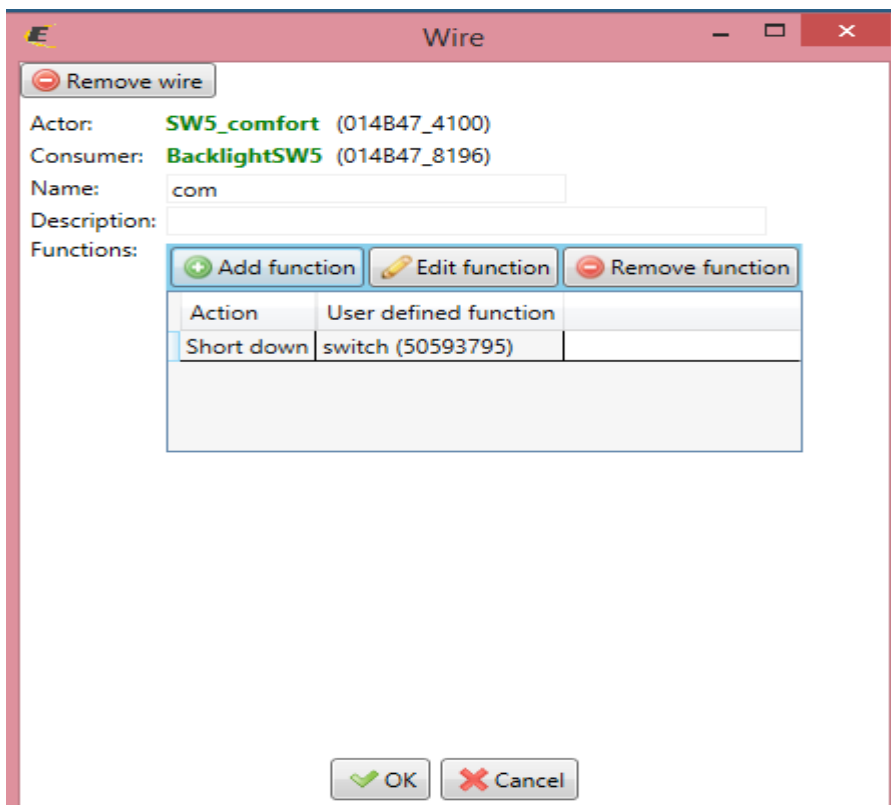
Add function Edit function Remove function

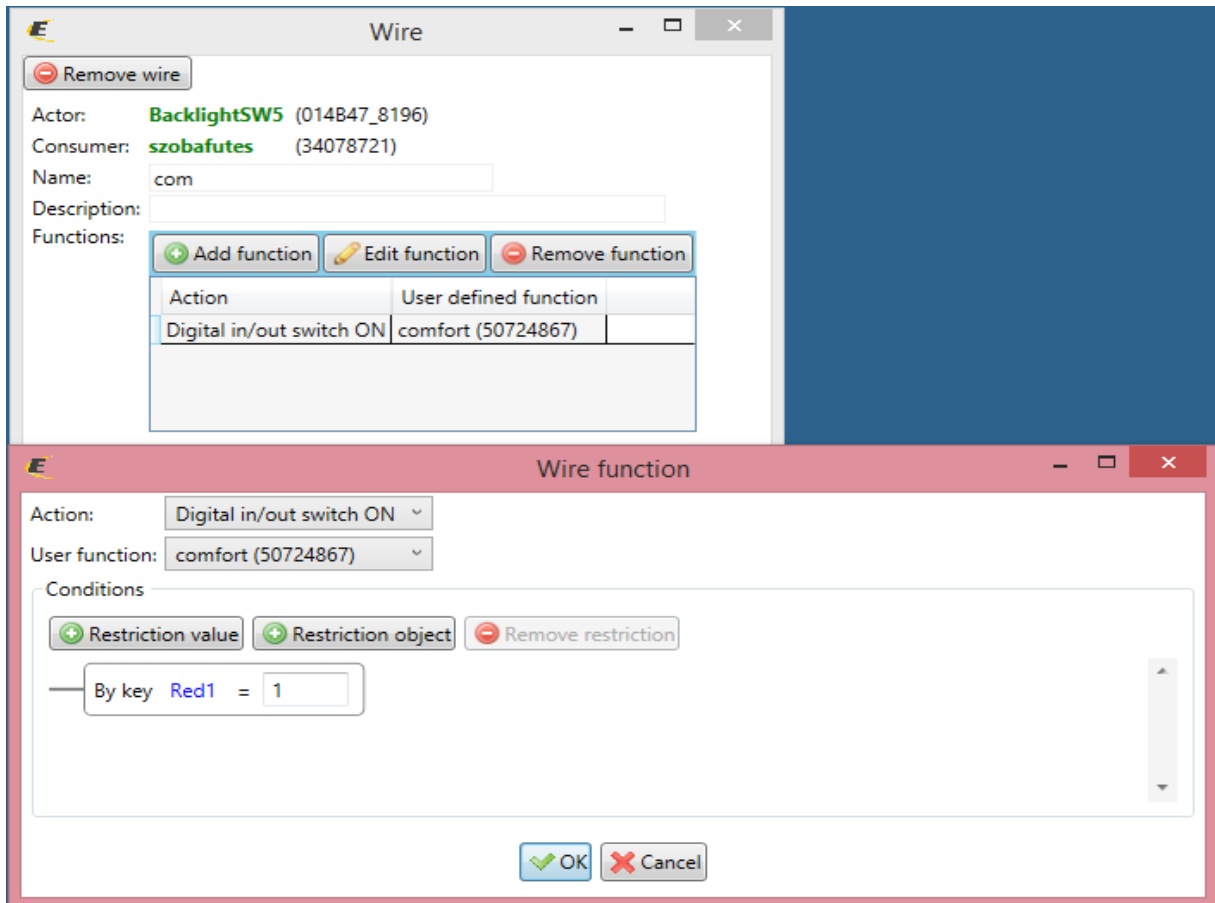
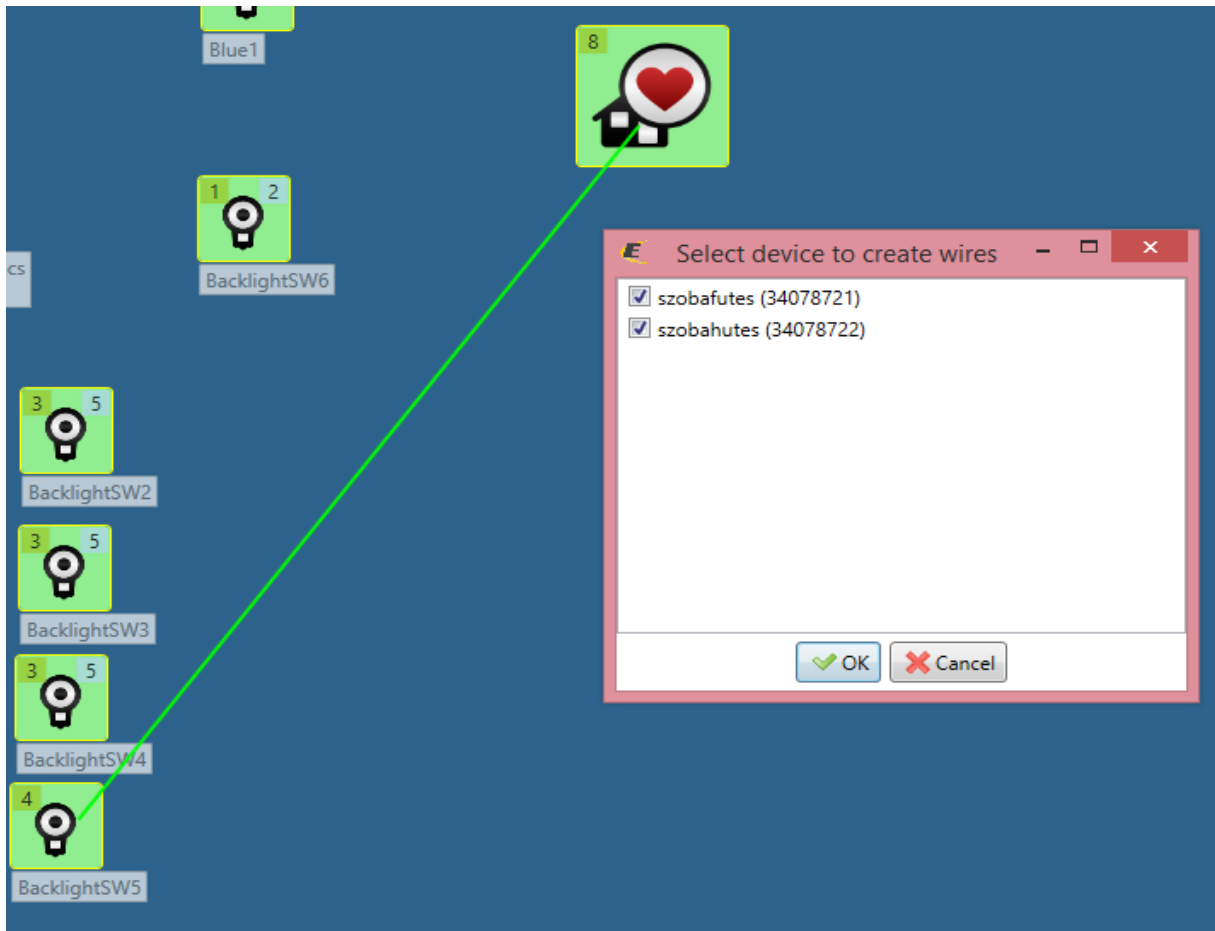
Action	User defined function
Digital in/out switch ON	off (50593794)

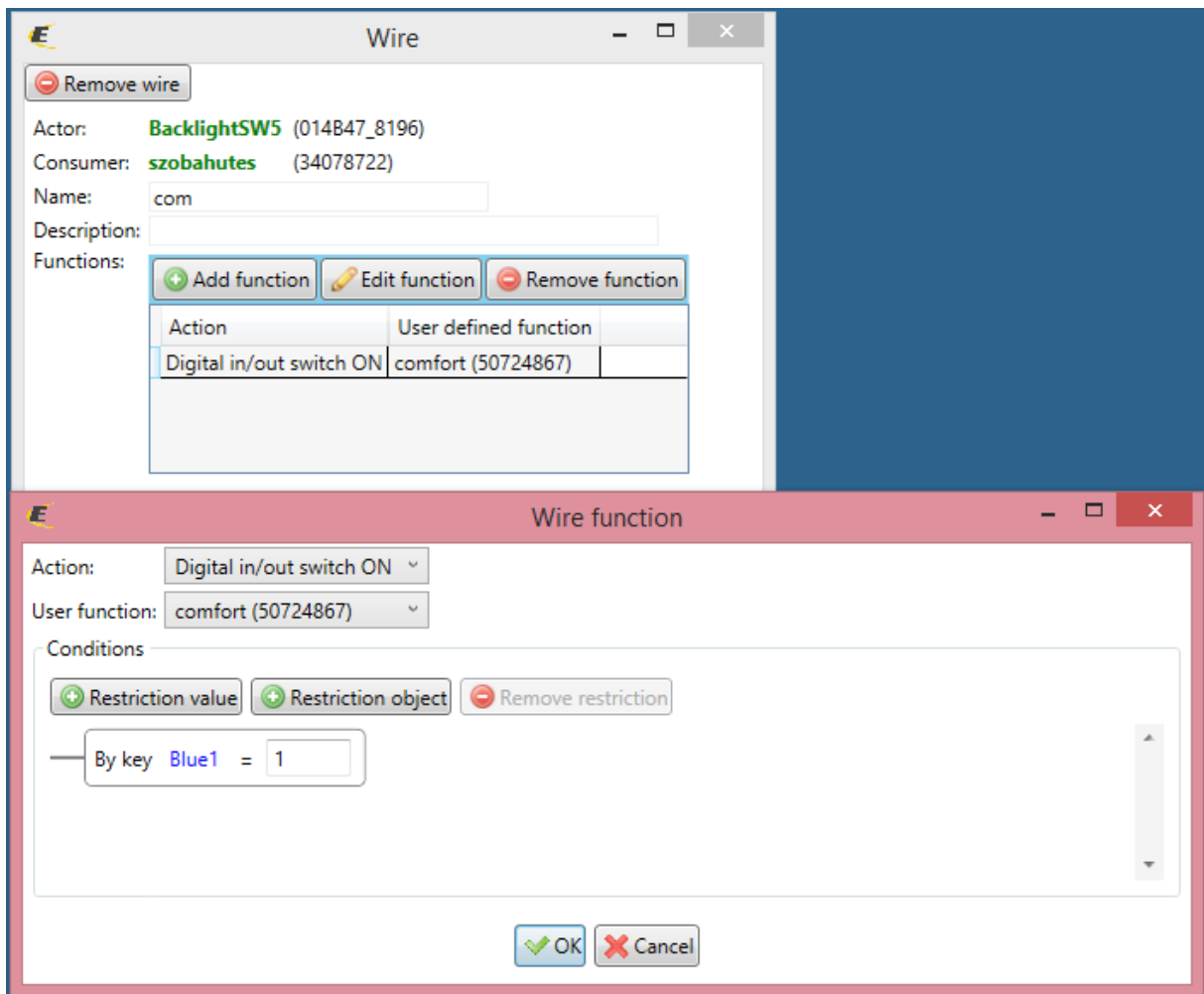
OK Cancel



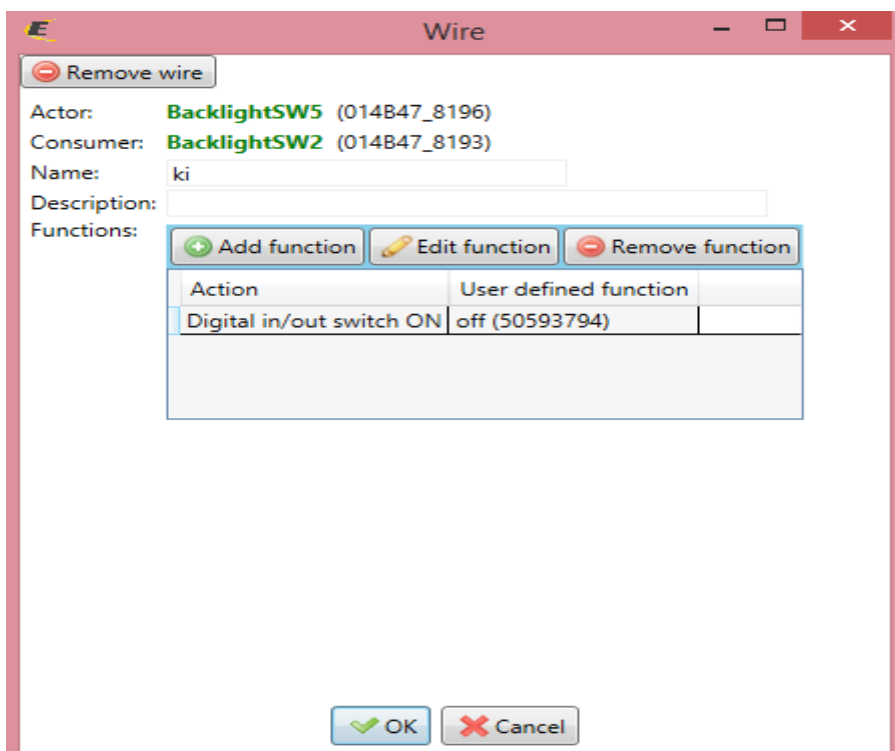
-Comfort hőmérséklet kezelése:







-háttérfények reteszelése:



**Wire**

Remove wire

Actor: **BacklightSW5** (014B47\_8196)  
 Consumer: **BacklightSW3** (014B47\_8194)  
 Name: ki  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	off (50593794)

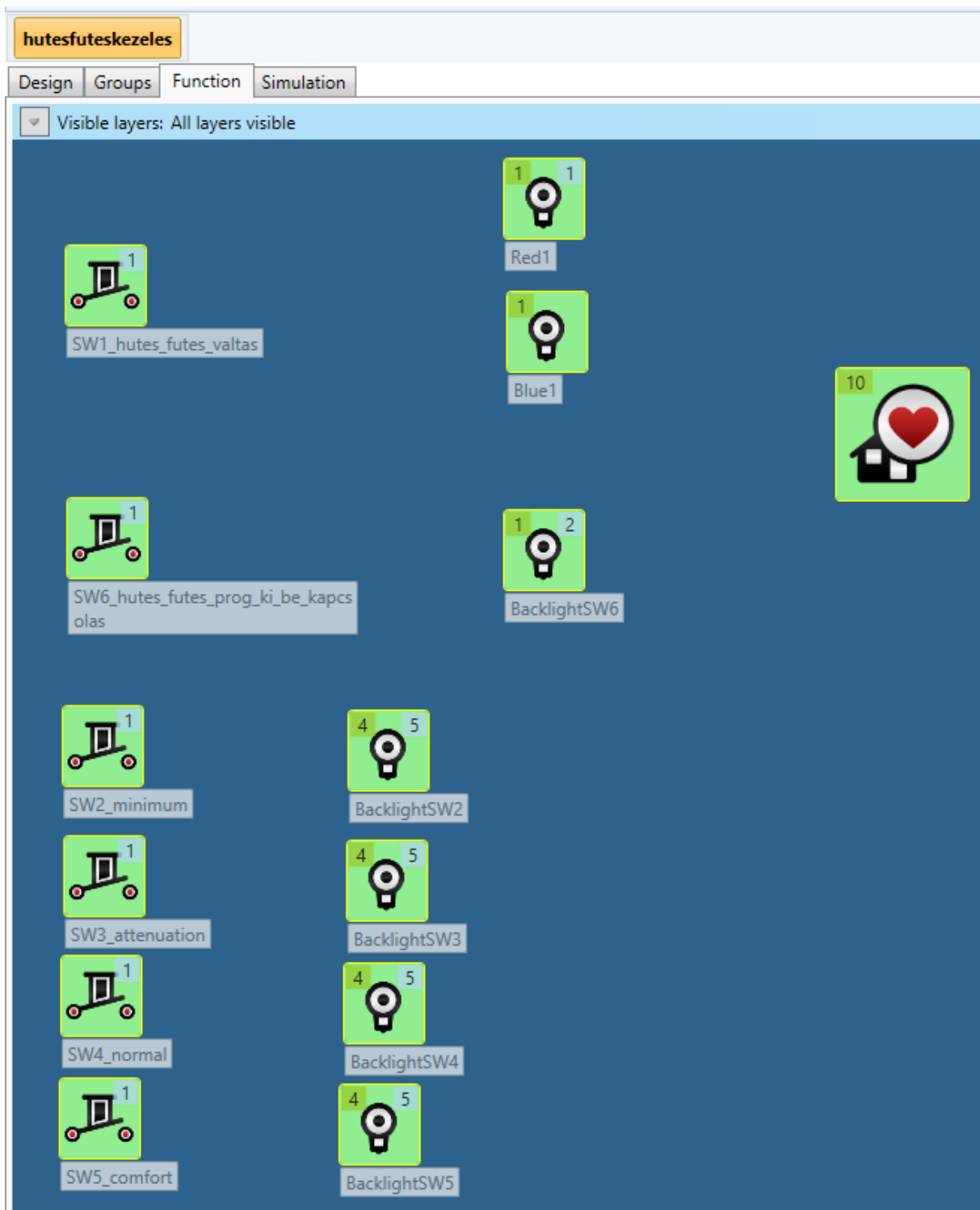
**Wire**

Remove wire

Actor: **BacklightSW5** (014B47\_8196)  
 Consumer: **BacklightSW4** (014B47\_8195)  
 Name: ki  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	off (50593794)

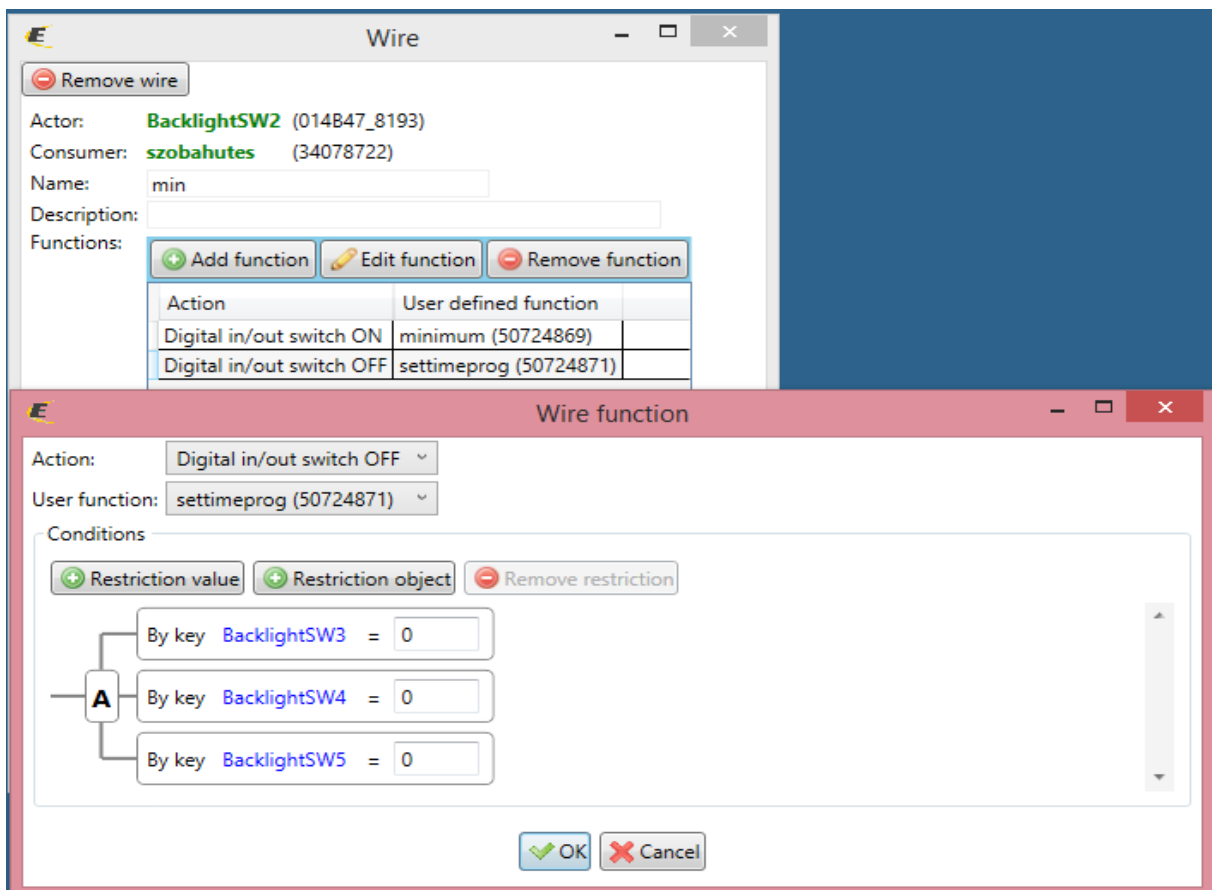
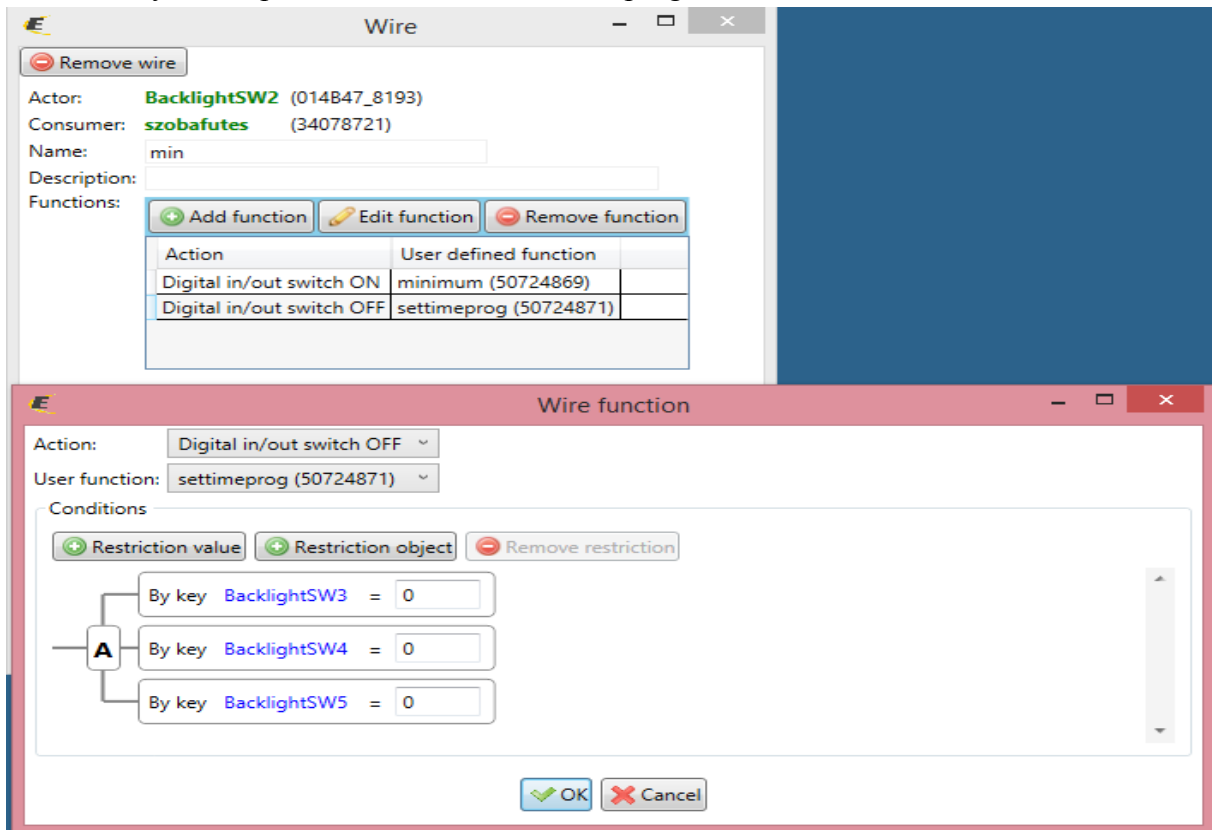
Ellenőrizzük le az összekötések számát:





Manuális-automata üzemmód beállítása:

A háttérfények kikapcsolásakor tér vissza az időprogram.



**Wire**

Remove wire

Actor: **BacklightSW3** (014B47\_8194)  
 Consumer: **szobafutes** (34078721)  
 Name: att  
 Description:  
 Functions:

Add function Edit function Remove function

Action	User defined function
Digital in/out switch ON	attenuate (50724870)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

Restriction value Restriction object Remove restriction

By key BacklightSW2 = 0  
 By key BacklightSW4 = 0  
 By key BacklightSW5 = 0

OK Cancel

**Wire**

Remove wire

Actor: **BacklightSW3** (014B47\_8194)  
 Consumer: **szobahutes** (34078722)  
 Name: att  
 Description:  
 Functions:

Add function Edit function Remove function

Action	User defined function
Digital in/out switch ON	attenuate (50724870)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

Restriction value Restriction object Remove restriction

By key BacklightSW2 = 0  
 By key BacklightSW4 = 0  
 By key BacklightSW5 = 0

OK Cancel

**Wire**

Remove wire

Actor: **BacklightSW4** (014B47\_8195)  
 Consumer: **szobafutes** (34078721)  
 Name: normal  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	normal (50724868)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

By key BacklightSW2 = 0  
 By key BacklightSW3 = 0  
 By key BacklightSW5 = 0

**Wire**

Remove wire

Actor: **BacklightSW4** (014B47\_8195)  
 Consumer: **szobahutes** (34078722)  
 Name: normal  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	normal (50724868)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

By key BacklightSW2 = 0  
 By key BacklightSW3 = 0  
 By key BacklightSW5 = 0

**Wire**

Remove wire

Actor: **BacklightSW5** (014847\_8196)  
 Consumer: **szobafutes** (34078721)  
 Name: com  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	comfort (50724867)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

By key BacklightSW2 = 0  
 By key BacklightSW3 = 0  
 By key BacklightSW4 = 0

**Wire**

Remove wire

Actor: **BacklightSW5** (014847\_8196)  
 Consumer: **szobahutes** (34078722)  
 Name: com  
 Description:  
 Functions:

Action	User defined function
Digital in/out switch ON	comfort (50724867)
Digital in/out switch OFF	settimeprog (50724871)

**Wire function**

Action: Digital in/out switch OFF  
 User function: settimeprog (50724871)

Conditions

By key BacklightSW2 = 0  
 By key BacklightSW3 = 0  
 By key BacklightSW4 = 0