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FIBARO & NICE

Integraiton Guide
ver. 1.01

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FIBARO Modules designed for NICE control units integration

There are two products dedicated for NICE control unit portfolio integrations.
For voltage free (dry contact) control units it is recommended to use FIBARO Smart Implant (FGBS-222).
For NICE units controlled by 230VAC/110VAC it is recommended to use FIBARO Relay Switch (FGS-223)

FIBARO INTEGRATION	
Voltage free / dry contact inputs or up to 30VDC controled units	230VAC / 110VAC controlled units
FIBARO Smart Implant (FGBS-222).	**FIBARO Double Switch** (FIBARO FGS-223).

FIBARO DOUBLE SWITCH 2 FGS-223
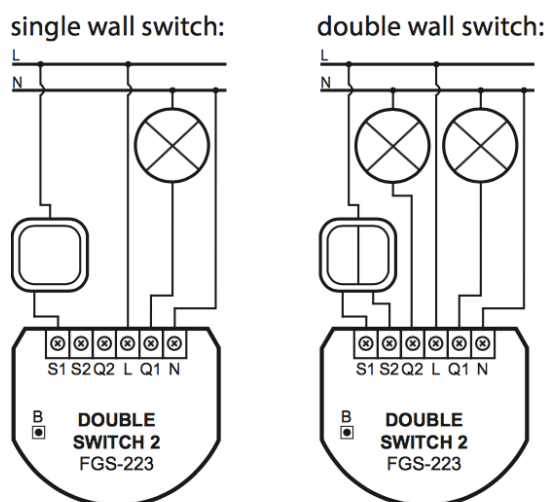
Wiring diagrams - Double Switch 2

Full product documentation is available under following link: https://manuals.fibaro.com/switch-2/

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Technical data: FIBARO Double Switch 2 FGS-223

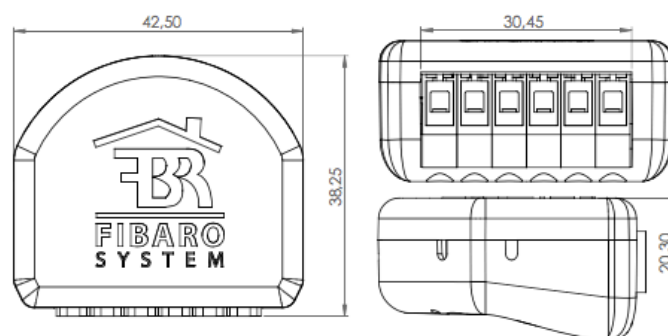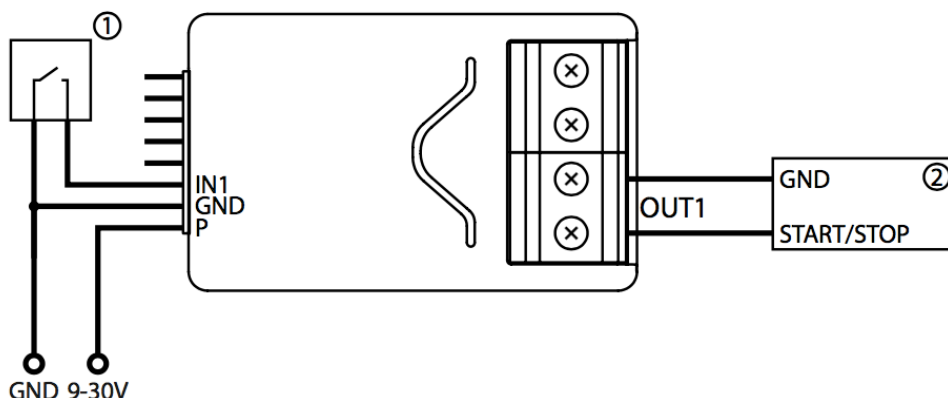|	
Power supply:	100-240V~ 50/60 Hz

Rated load current:	**Single Switch 2 (FGS-213):**
	IEC standards: 8A
	UL standards:
	  6.5A - resistive loads
	  5A - tungsten loads
	Double Switch 2 (FGS-223):
	IEC standards: 6.5A per channel
	                    10A overall
	UL standards:
	  6A per channel - resistive loads
	  3A per channel - tungsten loads
	  9.5A overall - resistive loads

Operating temperature:	0-35°C
For installation in boxes:	Ø ≥ 50mm, depth ≥ 60mm
Radio protocol:	Z-Wave (500 series chip)
Radio signal power:	up to 5dBm
Radio frequency:	868.4 or 869.8 MHz EU; 908.4, 908.42 or 916.0 MHz US; 921.4 or 919.8 MHz ANZ; 869.0 MHz RU;
Range:	up to 50m outdoors up to 40m indoors (depending on terrain and building structure)
Comply with EU directives:	RoHS 2011/65/EU RED 2014/53/EU
Dimensions (L x W x H):	42.5 x 38.25 x 20.3 mm

FIBARO SMART IMPLANT FGBS-222

Example connection with START / STOP function mapping:

1 - IN1 – voltage free (dry contact) input for wall switch or radio remote controller receiver

2 - OUT 1 – voltage free (dry contact) outputs

Full product documentation is available under following link: https://manuals.fibaro.com/smart-implant/

Technical Data: Smart Implant FGBS-223

Power supply	9-30V DC ±10%
Inputs	2 0-10V or digital inputs 1 serial 1-wire input
Outputs	2 potential-free outputs
Supported digital sensors	6 DS18B20 or 1 DHT22
Maximum current on outputs	150mA
Maximum voltage on outputs	30V DC / 20V AC ±5%
Built-in temperature sensor measurement range	-55°C–126°C (-67°F–259°F)
Operating temperature	0–40°C (32–104°F)
Radio protocol	Z-Wave (500 series chip)
Radio frequency	868.4 or 869.8 MHz EU; 908.4, 908.42 or 916.0 MHz US; 921.4 or 919.8 MHz ANZ; 869.0 MHz RU;
Transmit power	EIRP max. 7dBm
Range	up to 50m (164 ft) outdoors up to 40m (131 ft) indoors (depending on terrain and building structure)
Dimensions (Length x Width x Height)	29 x 18 x 13 mm (1.14" x 0.71" x 0.51")
Compliance with EU directives	RoHS 2011/65/EU RED 2014/53/EU

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| FIBARO & NICE INTEGRATION TABLE		
NICE CONTROL unit type	Units controlled by voltage free signal or voltage up to 30VDC.	Units controlled by 230/110VAC signal.
FIBARO module type	**FIBARO Smart Implant** (FIBARO FGBS-222).	**FIBARO Relay Switch** (FIBARO FGS-223).
Input signals	**IN 1 and IN2** DRY CONTACT GND	**IN 1 and IN2** 110/230VAC, the same phase as connected to L
Output signals	**OUT 1 and OUT 2** do 30VDC or 20AC	**Q1 and Q2 the same voltage as L,** load up to 6A for channel for resistive type loads
Possibilities	**Step-by-step for OUT 1** **Close for OUT 2**	**Open for Q1** **Close for Q2**
Advanced parameters modifications for Home Center Gateway.	**Parameter 156** (Auto OFF) – 0,5 seconds for OUT1 **Parameter 157** (Auto OFF) – 0,5 seconds for OUT 2	**Parameter 10** (Auto OFF) **Parameter 11** for 0,5 seconds **Parameter 15** (Auto OFF) **Parameter 17** – 0,5 seconds

OPEN and CLOSE.
This option is not widely available in all NICE products but provides most convenient way to manoeuvre gate. It is recommended to use this function in every available control unit.

STEP BY STEP and CLOSE.
This option is widely available in most of the NICE control units.

NOTICE! For properly operation between FIBARO and NICE products it is obligatory to modify AutoOFF advanced parameters in Home Center 2 gateway. In this mode relay with disconnect automatically after time configured in the parameter value.
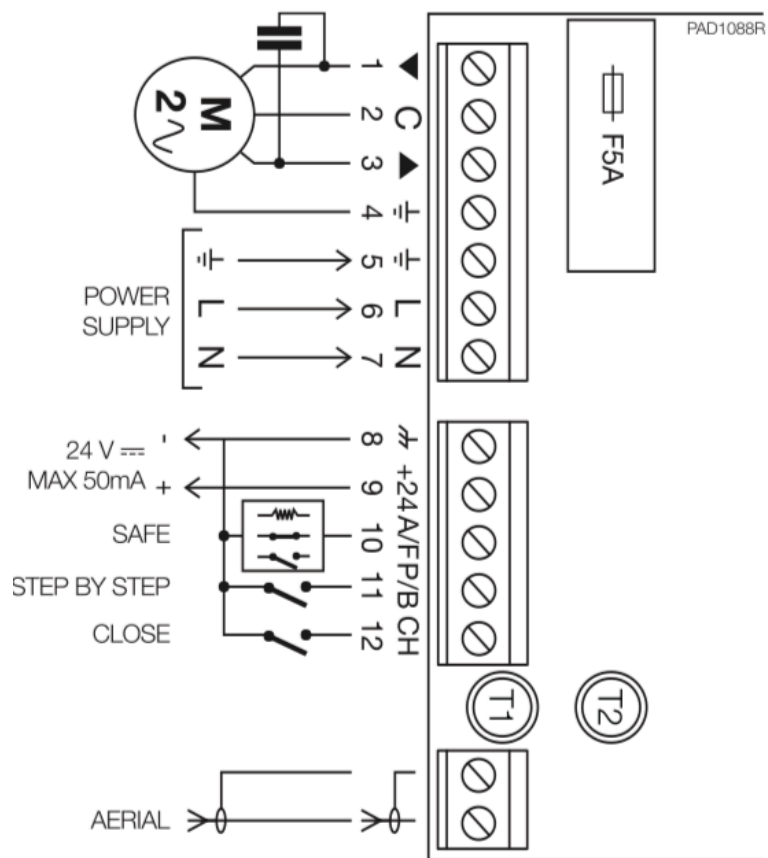
Integration device FIBARO Smart Implant
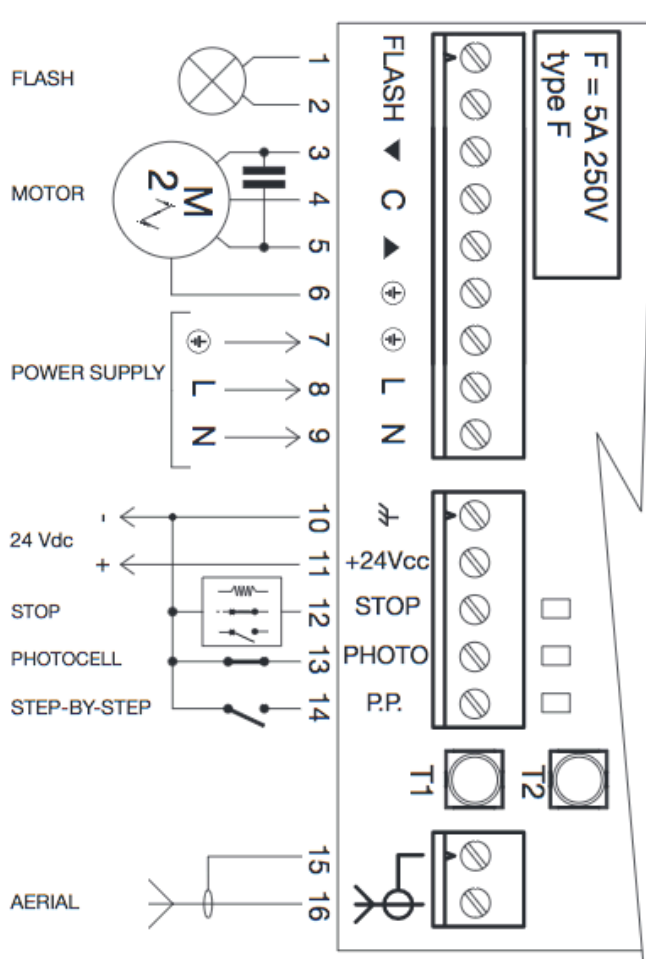**Power supply:** 24VDC

Connection:

Contact 8 connect with **OUT1 i OUT2**

Contact 11 connect with **OUT1**; Step by
Step function (Open – Stop – Close – Stop)

Contact 12 connect with **OUT 2**; Close function (Close - Stop - Close - Stop)

Control unit: Mindy A02

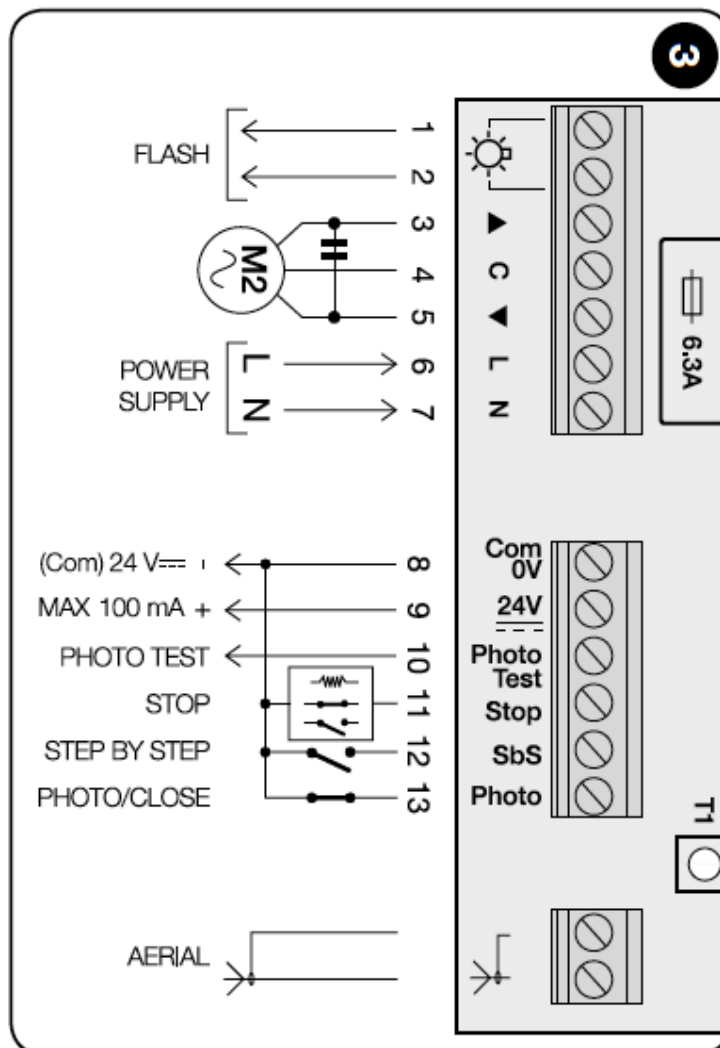**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 10 connect with **OUT 1**

Contact 14 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

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Control unit: Mindy MC200

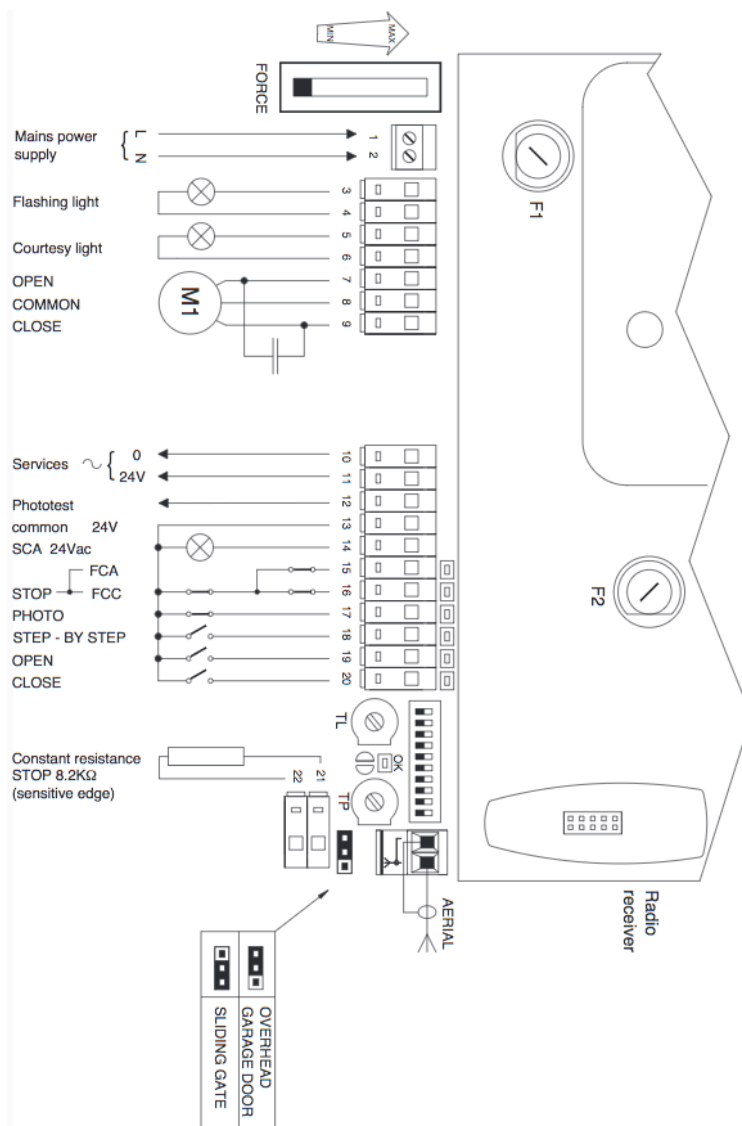**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 8 connect with **OUT 1**

Contact 12 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

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Control unit: Mindy A100F

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

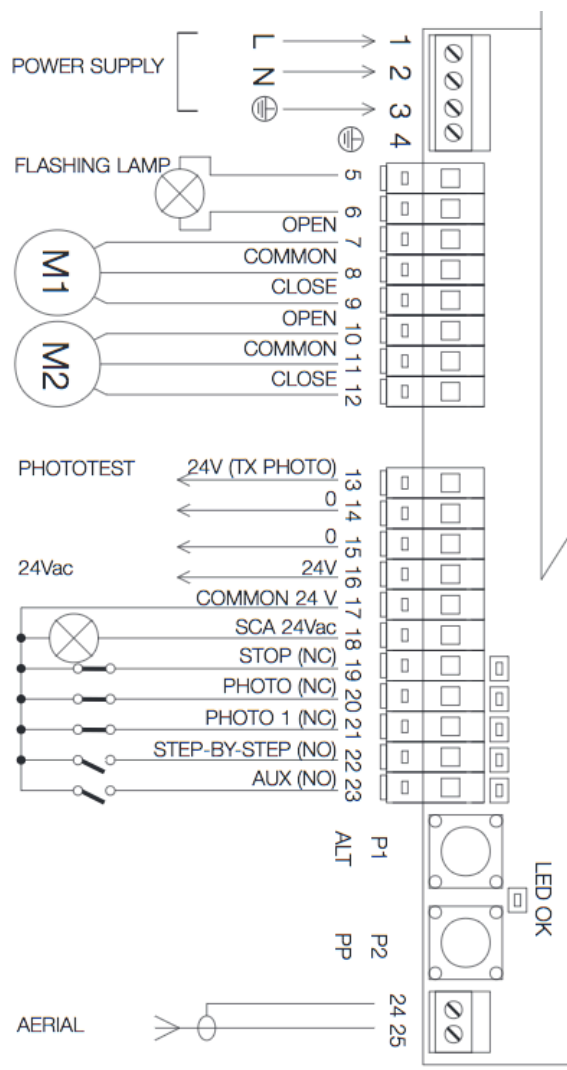**Contact 13** connect with **OUT 1 i OUT 2**

Contact 18 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)
Contact 20 connect with **OUT 2**; Close function (Close - Stop - Close - Stop)
Open function possible– Contact **19**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

Control unit: Mindy A400

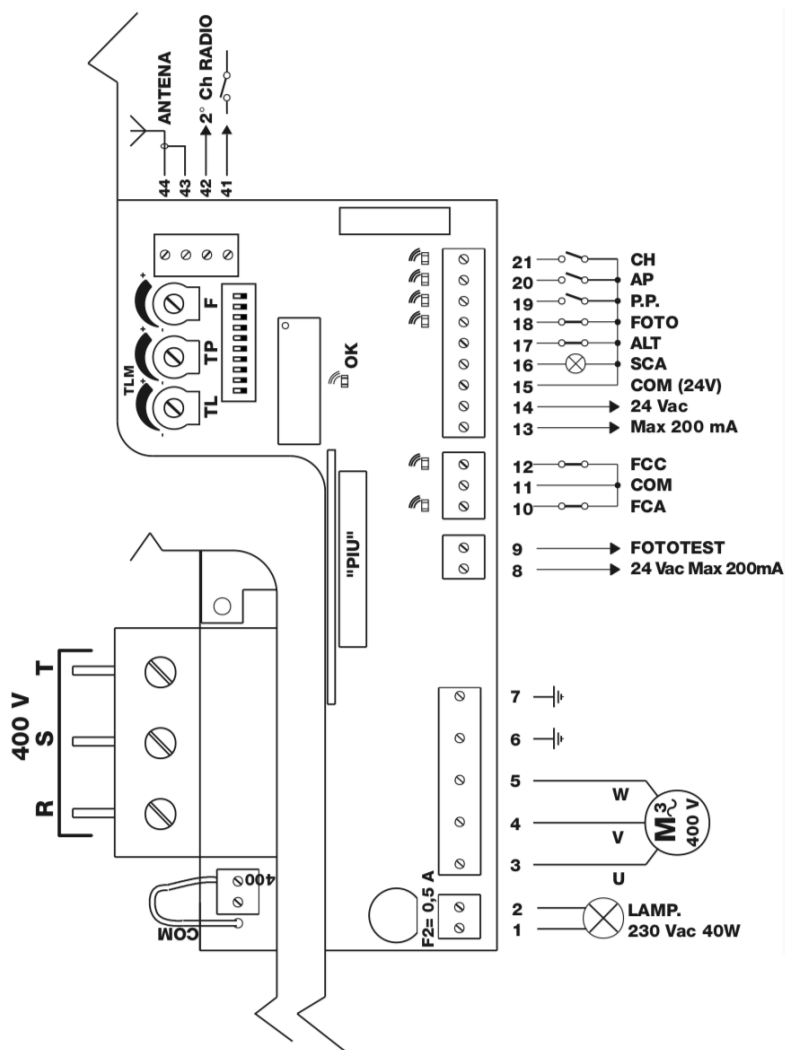**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 17 connect with **OUT 1**

Contact 22 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

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Control unit: Mindy A500

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

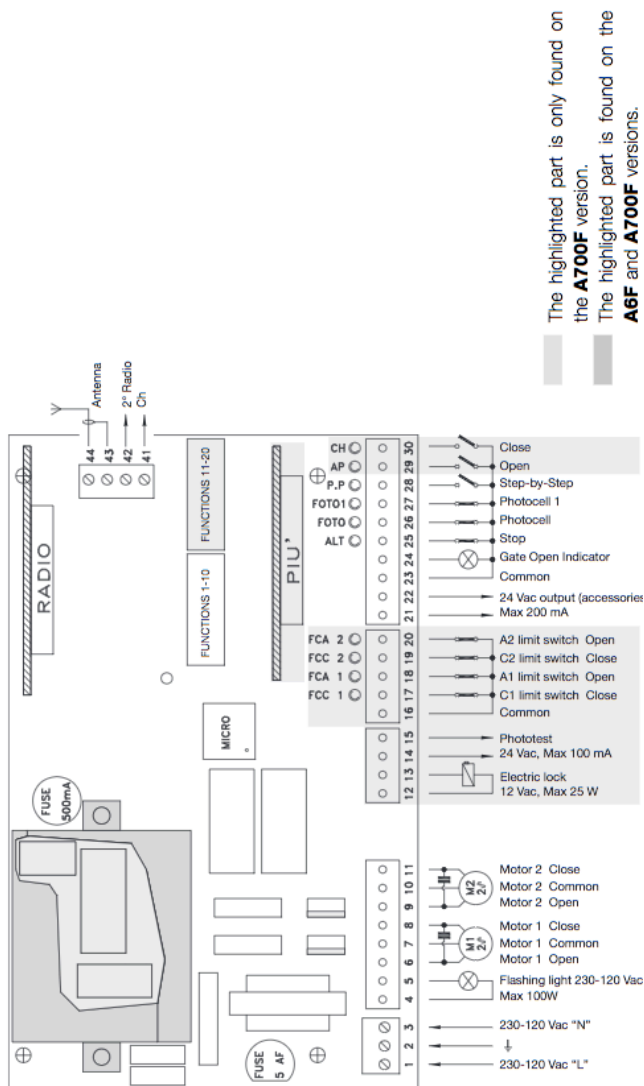**Contact 15** connect with **OUT 1 i OUT 2**

Contact 19 connect with **OUT 1**; Function Step by Step (Open - Stop - Close - Stop)

Contact 21 connect with **OUT 2**; Close function

Open function possible– Contact **20**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: Mindy A6, A6F, A700F

The highlighted part is only found on the **A700F** version.

The highlighted part is found on the **A6F** and **A700F** versions.

CH	30		Close
AP	29		Open
P.P	28		Step-by-Step
FOTO1	27		Photocell 1
FOTO	26		Photocell
ALT	25		Stop
	24		Gate Open Indicator
	23		Common
	22		24 Vac output (accessories)
	21		Max 200 mA
FCA 2	20		A2 limit switch Open
FCC 2	19		C2 limit switch Close
FCA 1	18		A1 limit switch Open
FCC 1	17		C1 limit switch Close
	16		Common
	15		Phototest
	14		24 Vac, Max 100 mA
	13		Electric lock
	12		12 Vac, Max 25 W
	11		Motor 2 Close
	10		Motor 2 Common
	9		Motor 2 Open
	8		Motor 1 Close
	7		Motor 1 Common
	6		Motor 1 Open
	5		Flashing light 230-120 Vac
	4		Max 100W
	3		230-120 Vac "N"
	2		
	1		230-120 Vac "L"

Antenna 44 43 42 41 2° Radio Ch

RADIO

FUNCTIONS 11-20

FUNCTIONS 1-10

PIU'

MICRO

FUSE 500mA

FUSE 5 AF

M2 2°

M1 2°

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:
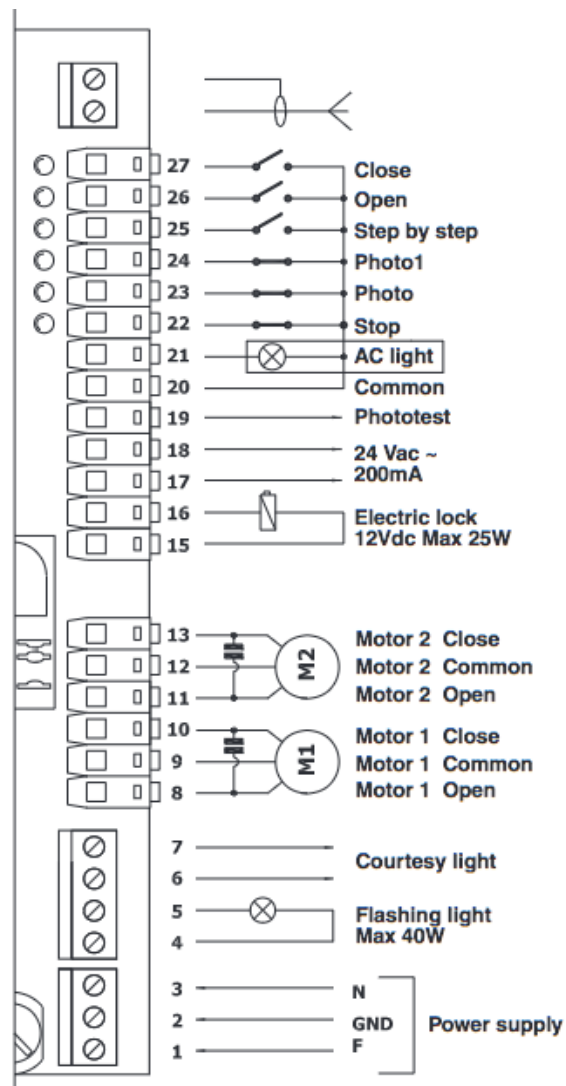
Contact 23 connect with **OUT 1 i OUT 2**

Contact 28 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 30 connect with **OOUT 2**; Close function (Tylko wersja A6F, A700F)

Open function possible– Contact **29**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

Control unit: Mindy A60

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

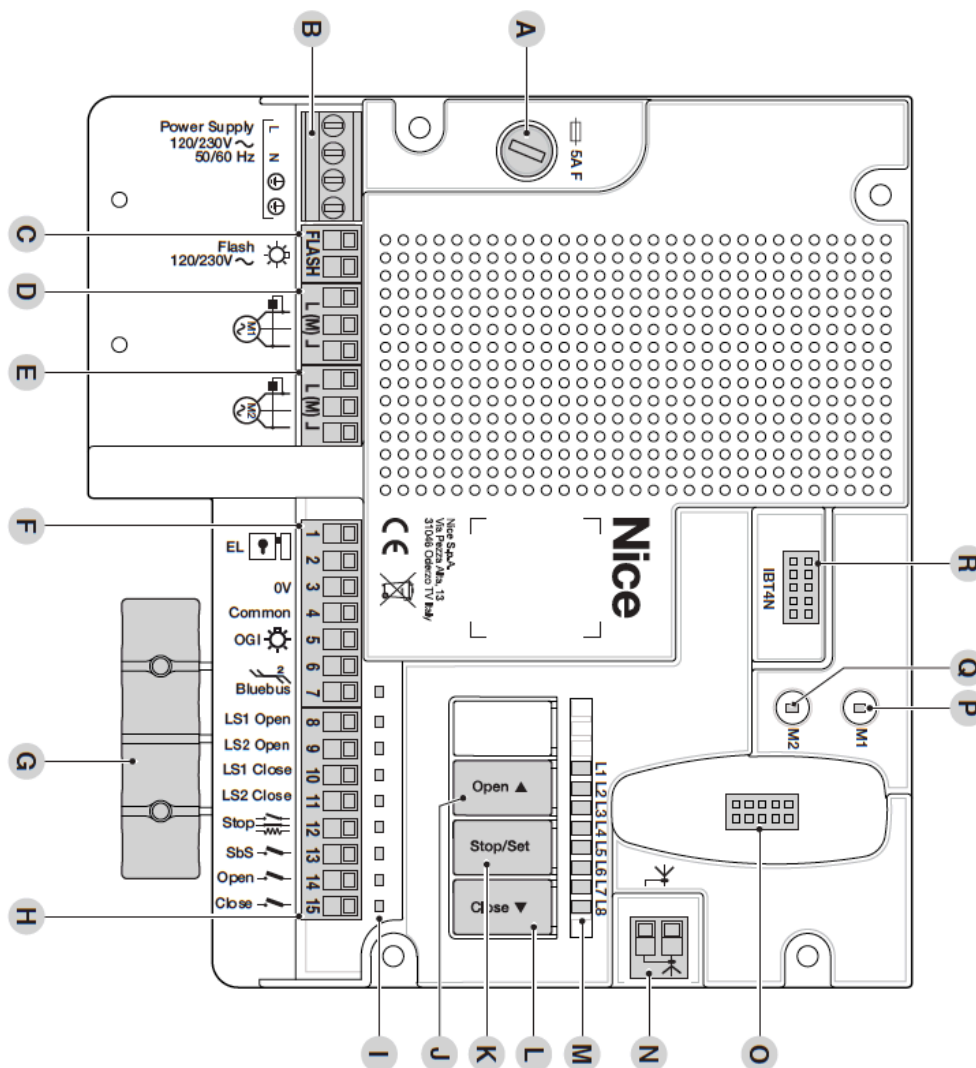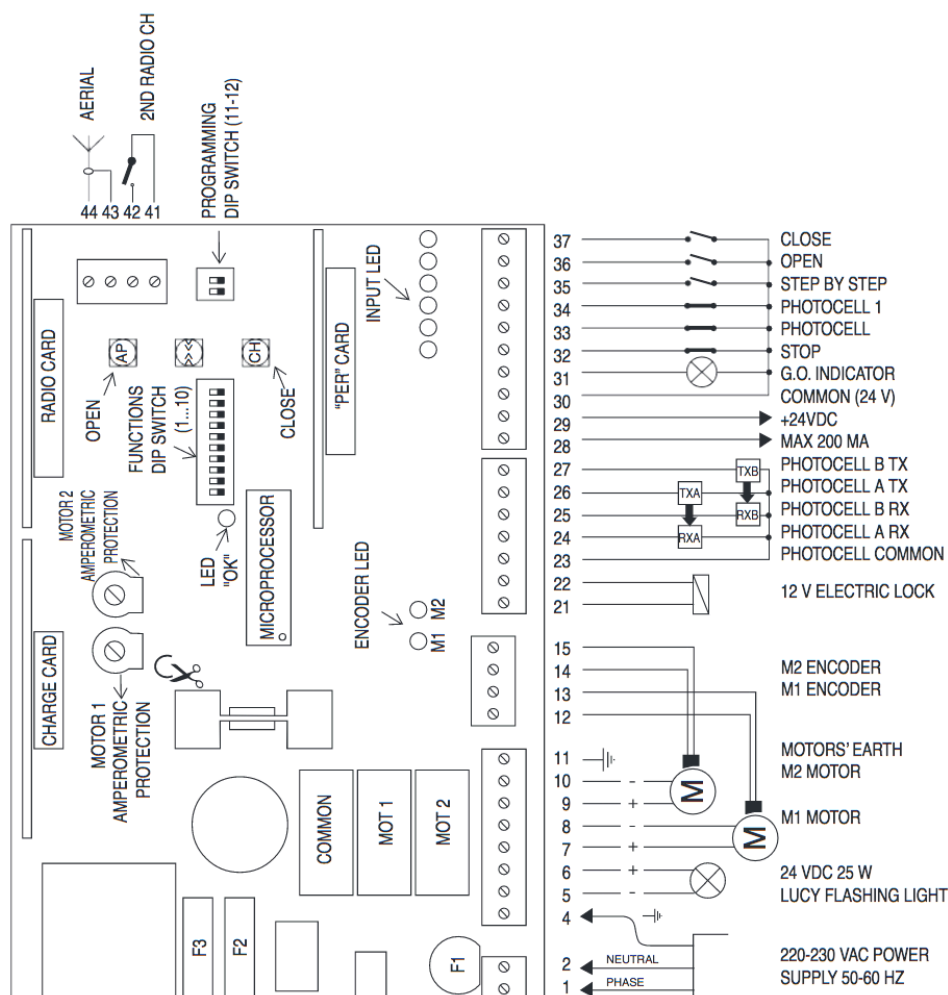**Contact 20** connect with **OUT 1 i OUT 2**
Contact 25 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)
Contact 27 connect with **OUT 2**; Close function

Open function possible– Contact **26**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

Control unit: Mindy MC800

Integration device from FIBARO: FIBARO Smart Implant
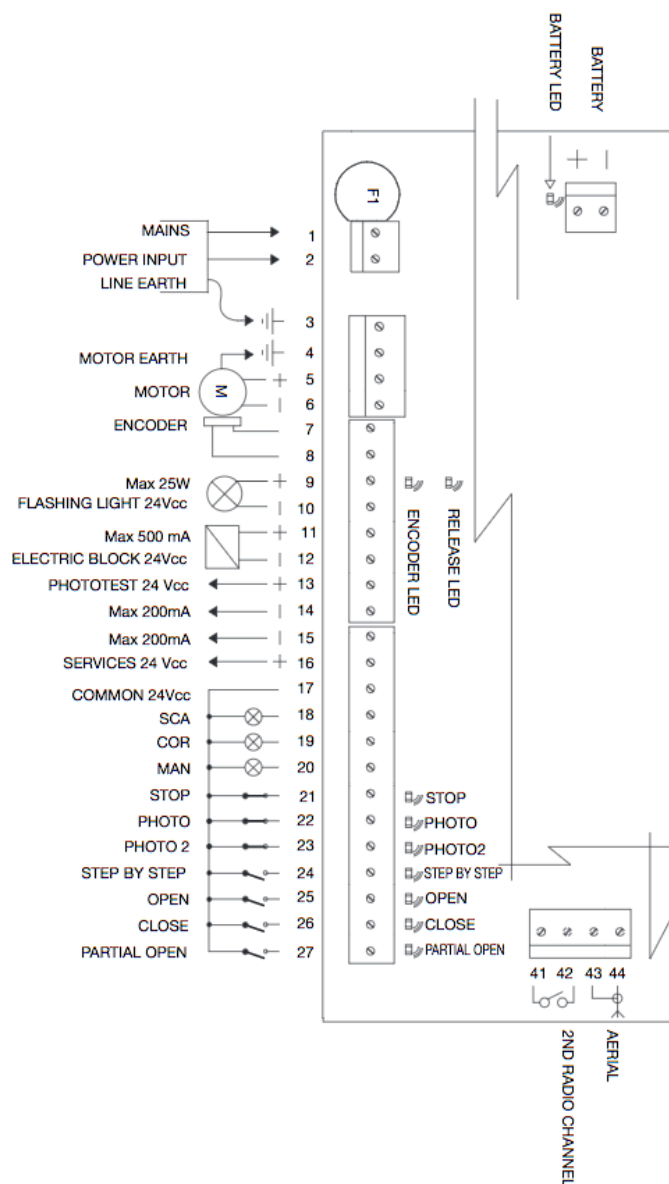**Power supply:** 24VDC

Connection:
Contact 4 connect with **OUT 1 i OUT 2**

Contact 13 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 15 connect with **OUT 2**; Close function

Open function possible– Contact **14**. It is recommended to use second FGS module.
NOTICE! It is recommended to use this function.

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Control unit: Mindy A824T

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

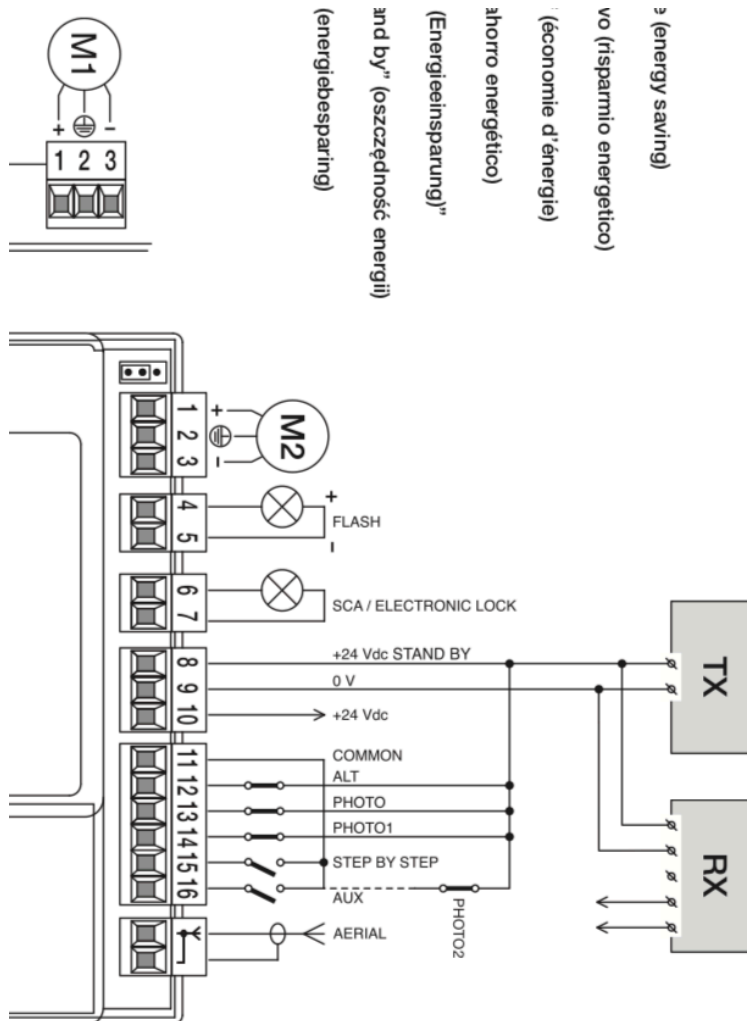**Contact 30** connect with **OUT 1 i OUT 2**

Contact 35 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 37 connect with **OUT 2**; Close function

Open function possible– Contact **36**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: Mindy A924

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:
Contact 17 connect with **OUT 1 i OUT 2**

Contact 24 connect with **O1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 26 connect with **O2**; Close function

Open function possible– Contact **25**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: Moon MC424

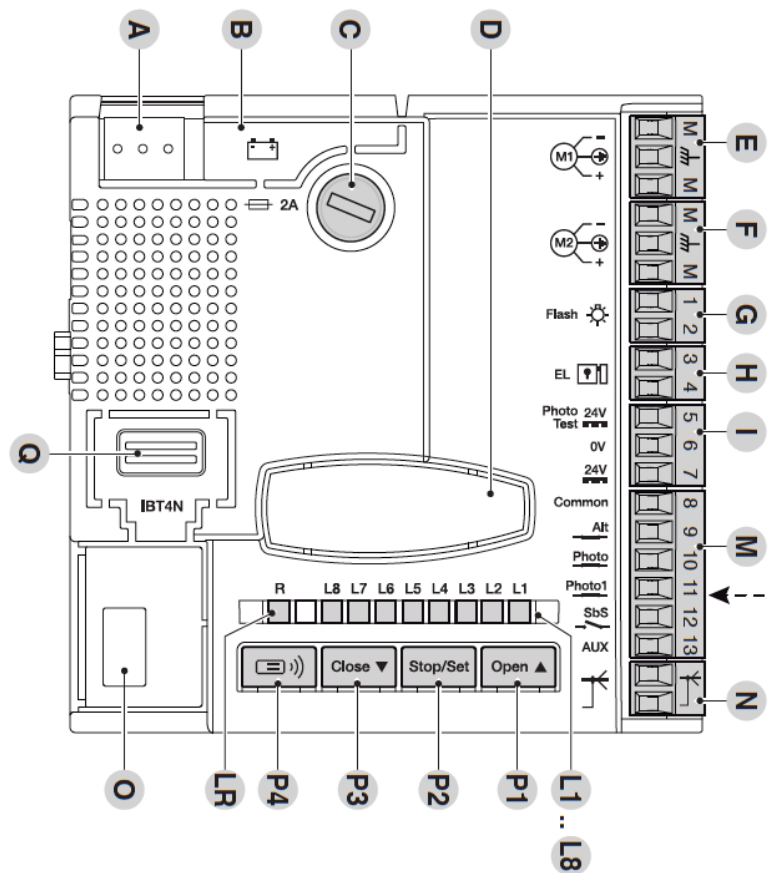**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 11 connect with **OUT 1**

Contact 15 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

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Control unit: Moon MC424LR10

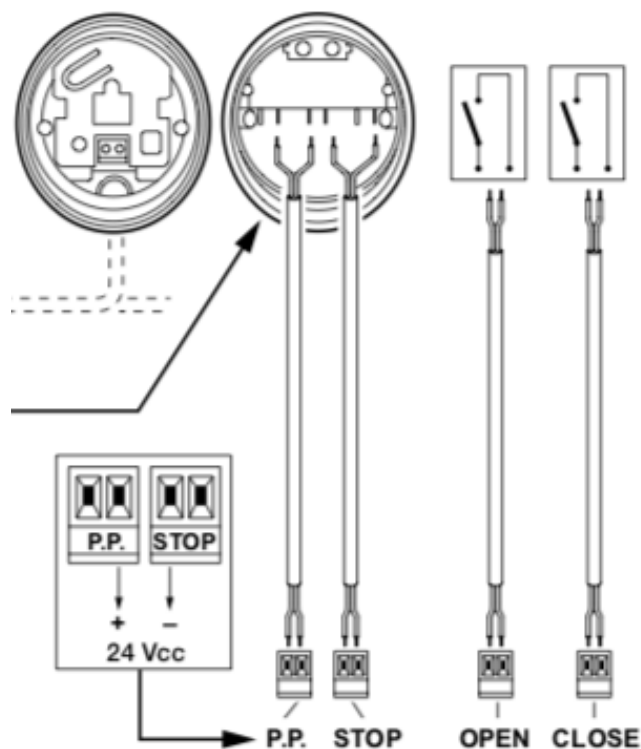**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 8 connect with **OUT 1**

Contact 12 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

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Control unit: Moon MC824H

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC
Connection:
Możliwe zastosowanie drugiego modułu FGS.
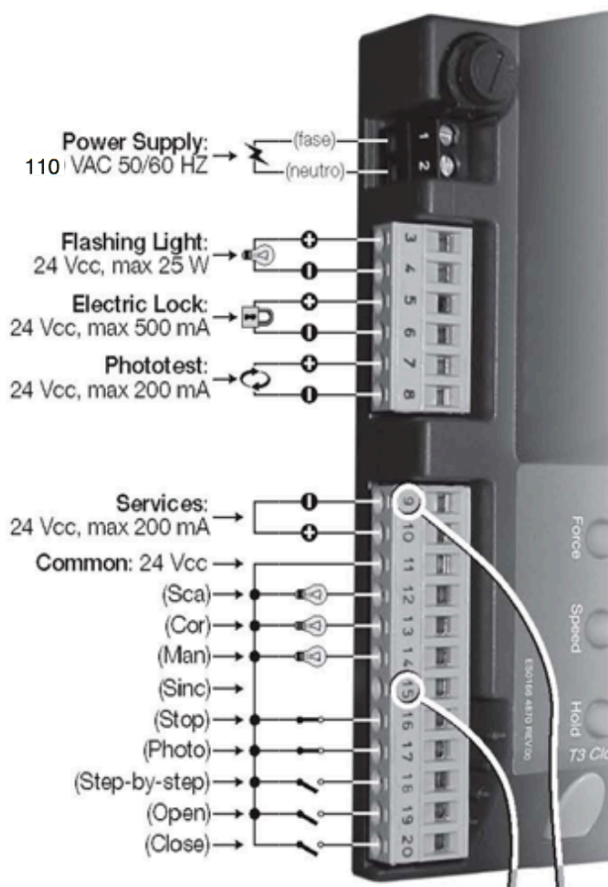
Contact P.P connect with **OUT 1**
Contact P.P connect with **O1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact CLOSE connect with **OUT 2**;
Contact CLOSE connect with **OUT 2;** Close function
Open function possible– Contact **OPEN**. It is necessary to use second FGBS module.

Control unit: SIA20 A

Integration device from FIBARO: FIBARO Smart Implant
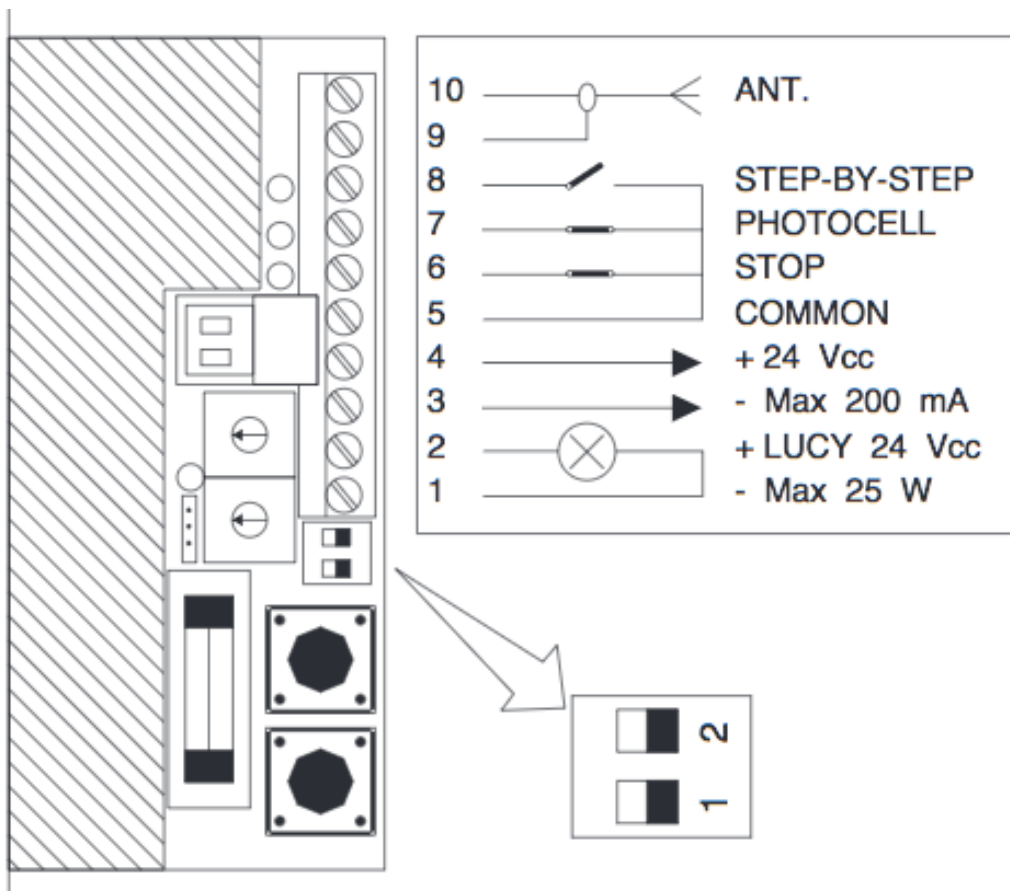**Power supply:** 24VDC

Connection:

Contact 11 connect with **OUT 1**

Contact 18 connect with **OUT1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 20 connect with **OUT 2**; Close function
Open function possible– Contact **19**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: SPIDER 6065,6100


```
10 ──────○──< ANT.
 9

 8 ────╱──    STEP-BY-STEP
 7 ────▬──    PHOTOCELL
 6 ────▬──    STOP
 5            COMMON
 4 ────────►  + 24 Vcc
 3 ────────►  - Max 200 mA
 2 ───⊗───    + LUCY 24 Vcc
 1            - Max 25 W
```

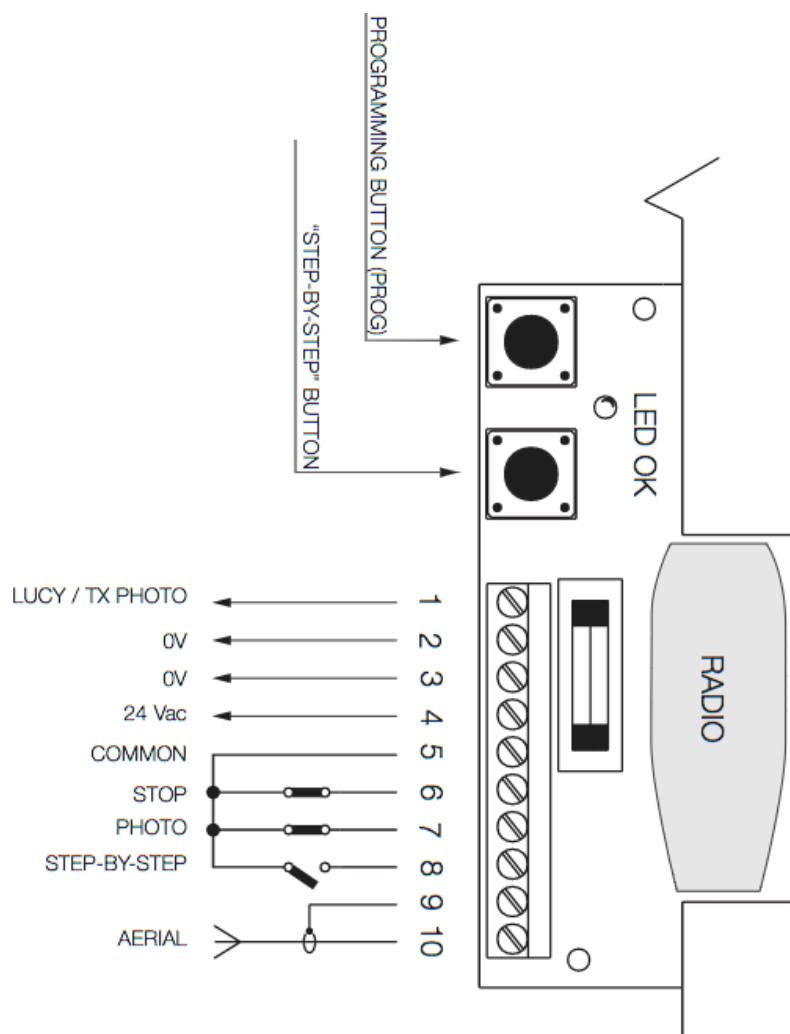**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 5 connect with **OUT 1**

Contact 8 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

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Control unit: SPIDO

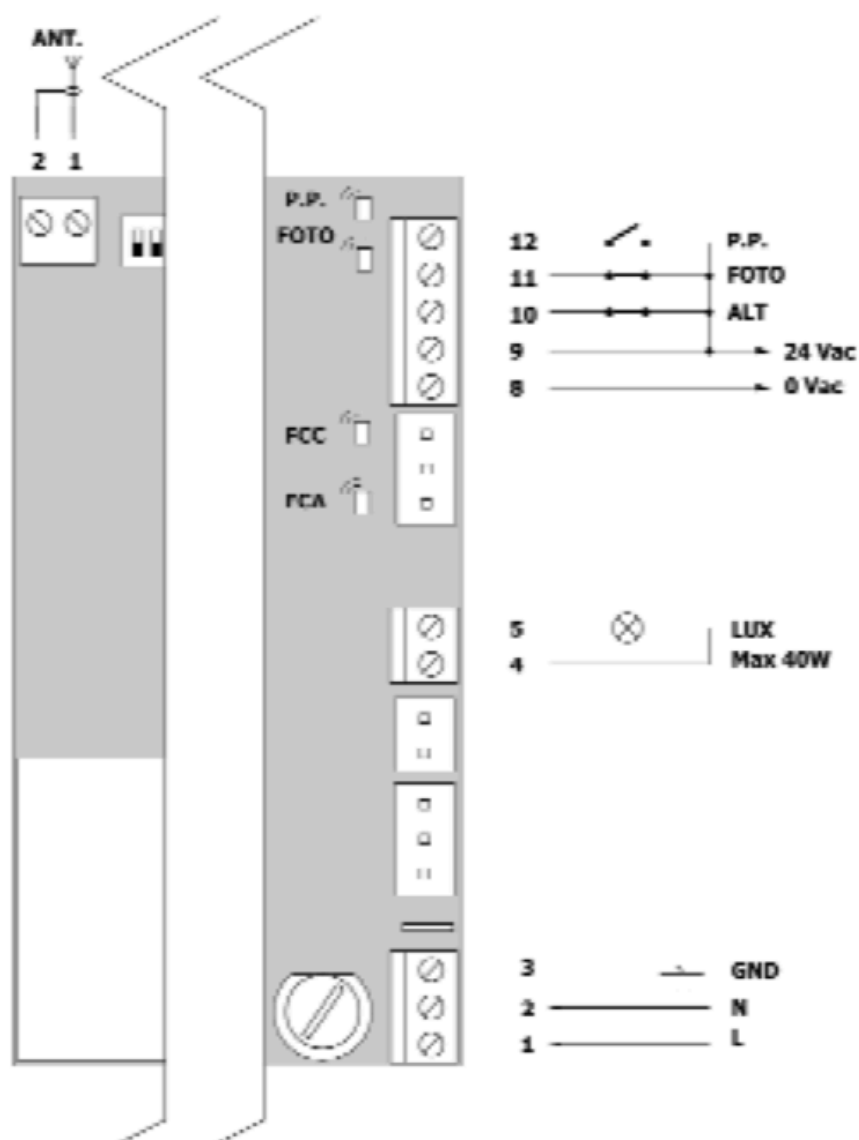**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 5 connect with **OUT 1**

Contact 8 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

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Control unit: Thor1500KIT

Integration device from FIBARO: FIBARO Smart Implant
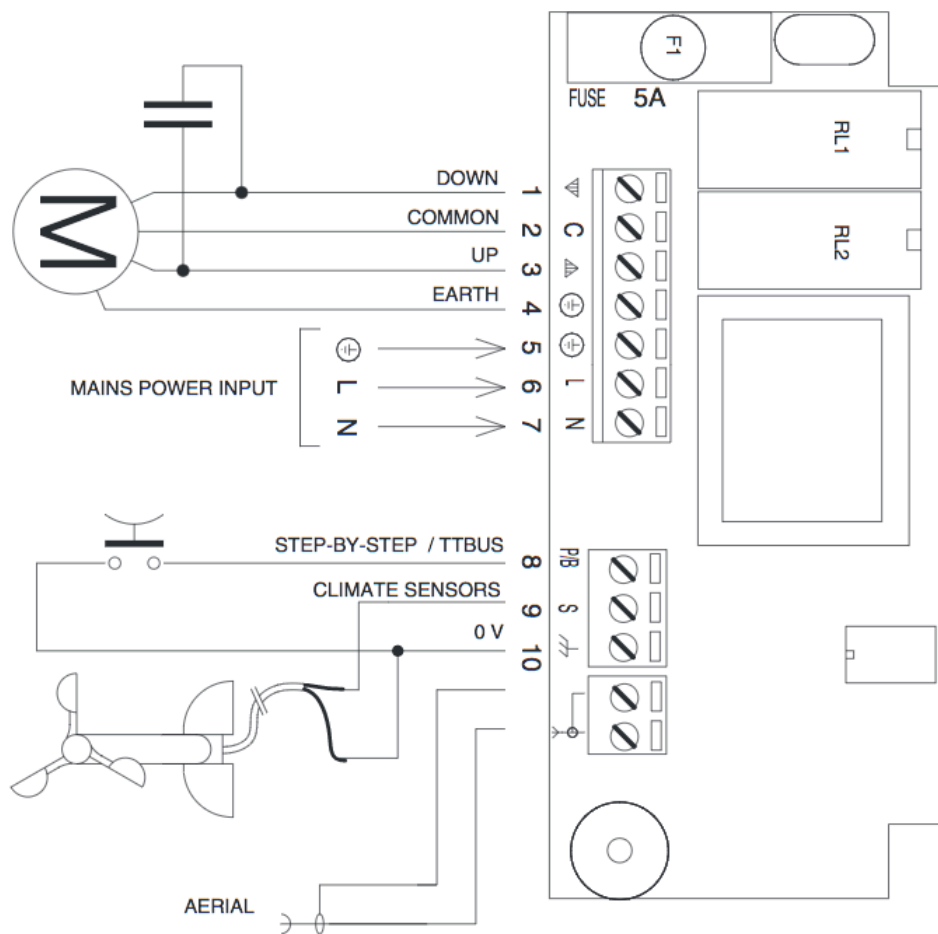**Power supply:** 24VDC

Connection:

Contact 9 connect with **OUT 1**

Contact 12 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

Control unit: Mindy TT0

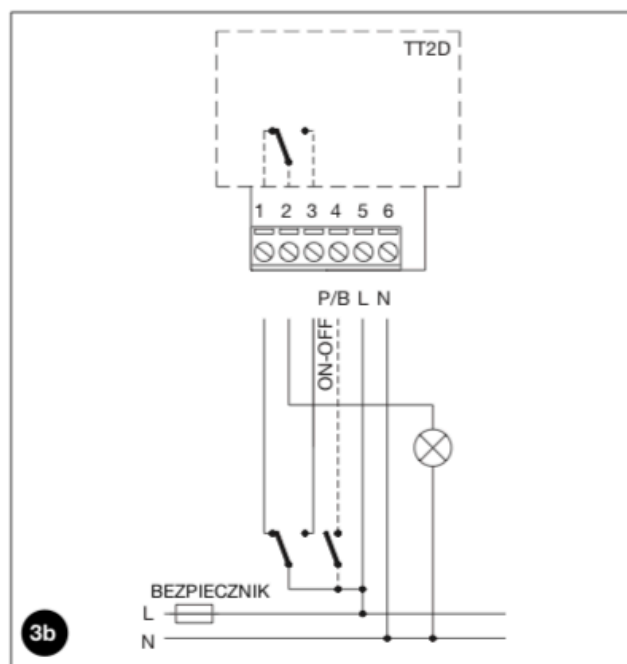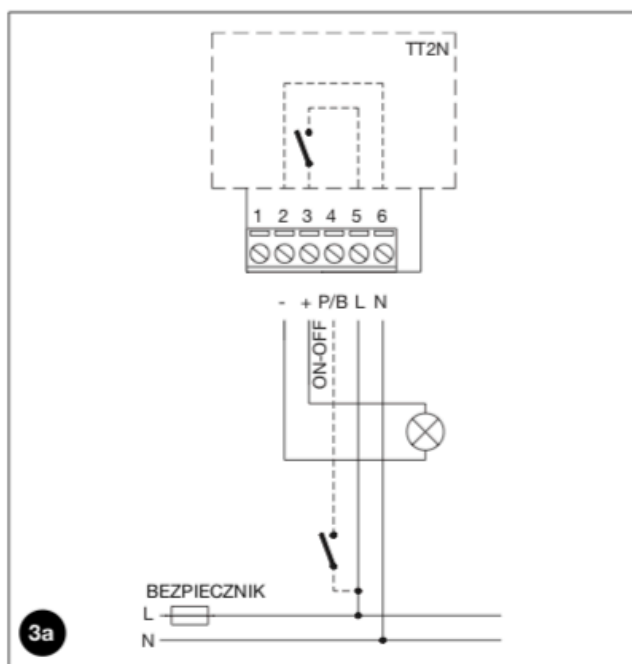**Integration device from FIBARO: FIBARO Smart Implant**
Power supply: 24VDC

Connection:

Contact 10 connect with **OUT 1**

Contact 8 connect with **OUT 1**;
Step by step function (Open - Stop - Close - Stop)

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Control unit: TT2L, TT2D

Integration device from FIBARO: FIBARO Double Switch 2 FGS-223
Power supply: sieciowe 230VAC L i N

Connection:

Contact L connect with **L modułu**

Contact 4 connect with **Q1**

Control unit: TT2N
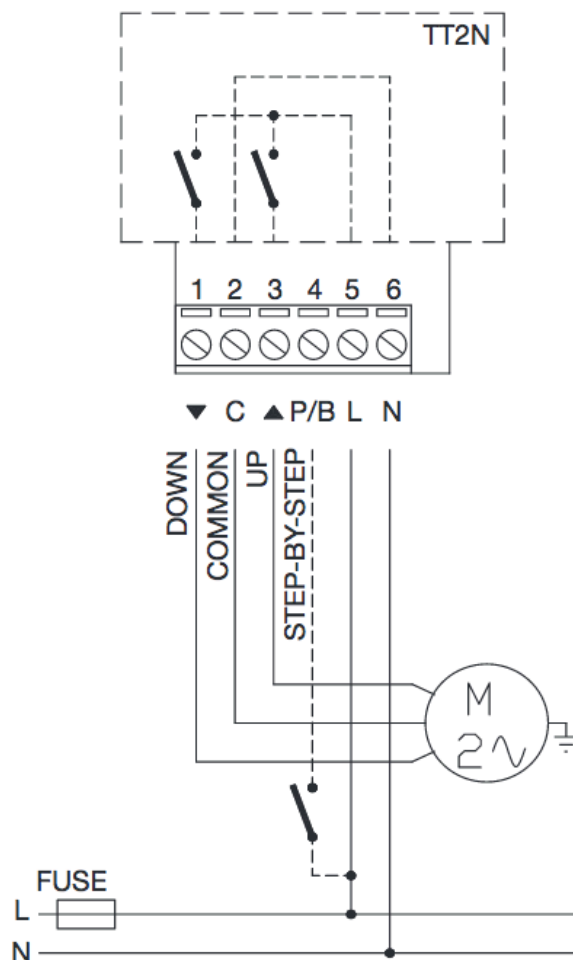
Integration device from FIBARO: FIBARO Double Switch 2 FGS-223
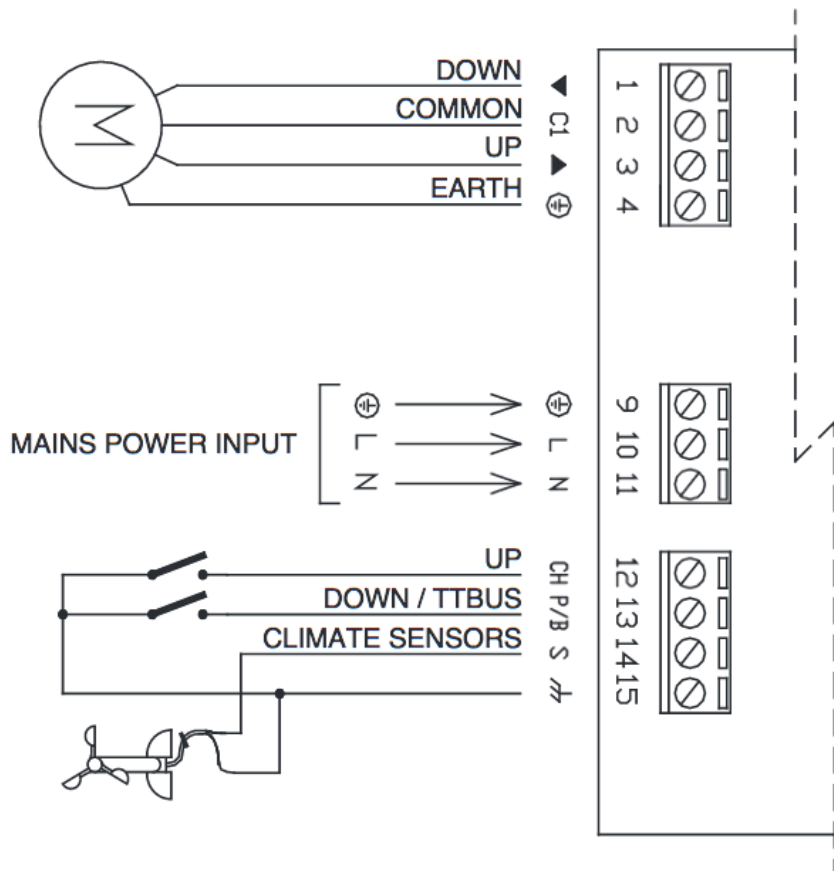**Power supply:** sieciowe 230VAC L i N

Connection:

Contact L connect with **L modułu**

Contact 4 connect with **Q1**
Step operation function

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Control unit: TT3

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

Contact 15 connect with **IN**

Contact 12 connect with **O1**;
Up function

Contact 13 connect with **O2**;
Lowering function

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Control unit: TT4, TT5

Integration device from FIBARO: FGS-222
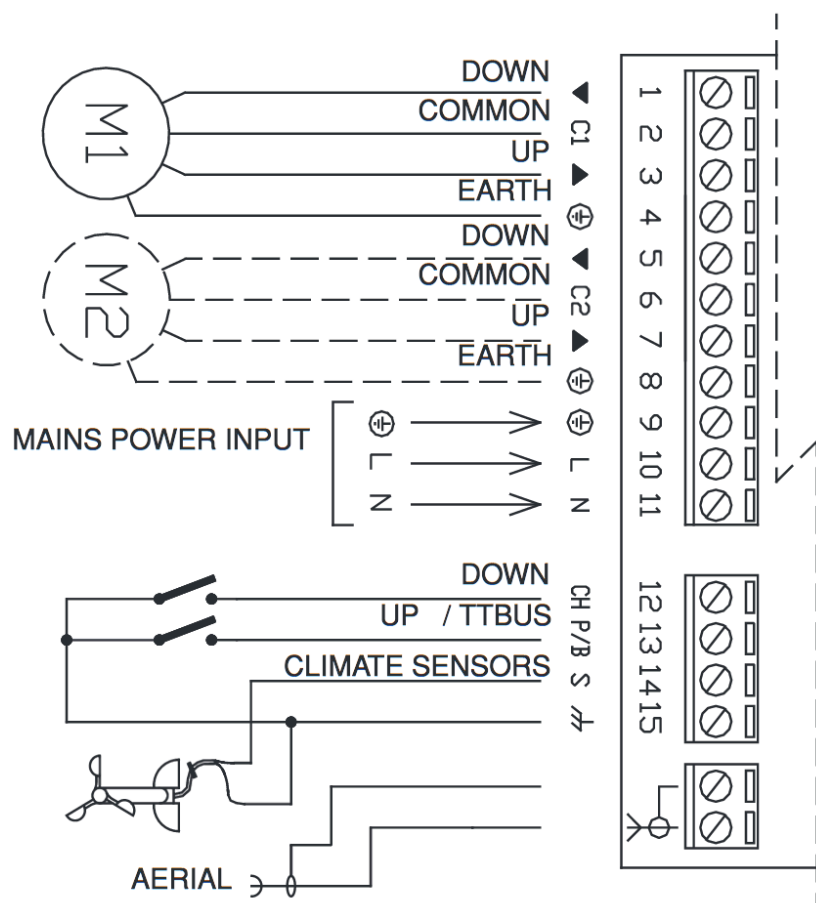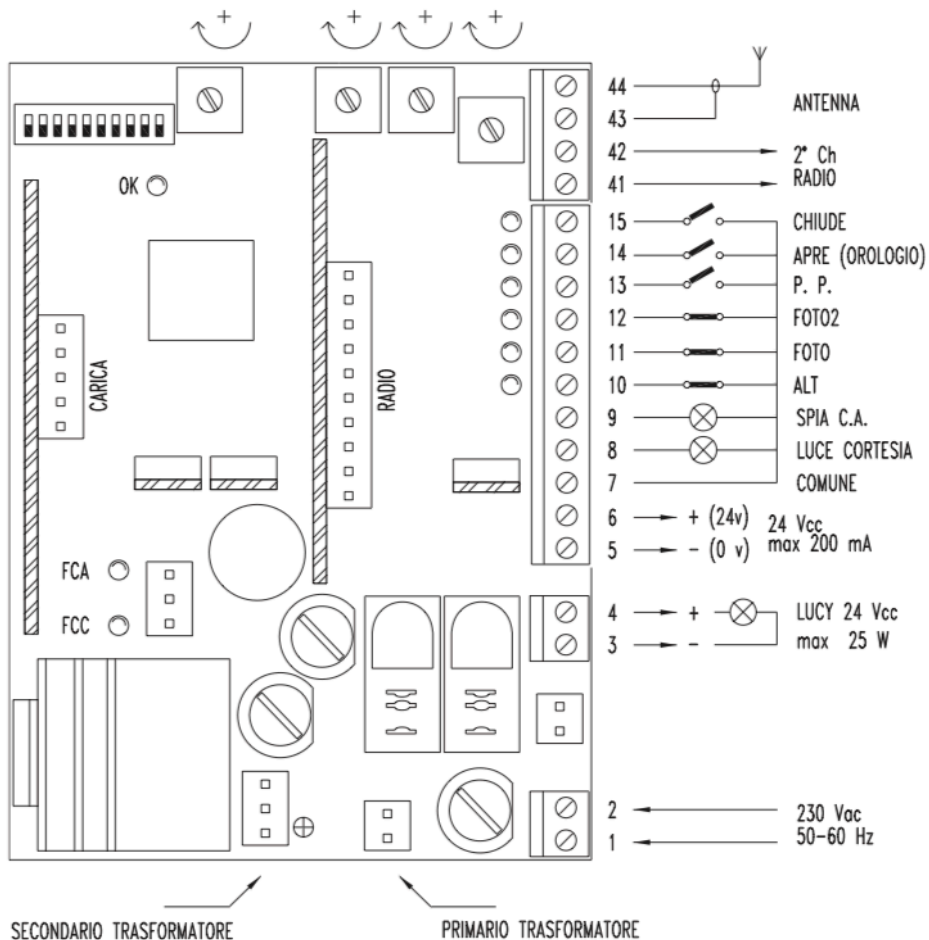**Power supply:** 24VDC z zewnętrznego zasilacza

Connection:

Contact 15 connect with **IN**

Contact 12 connect with **O1**;
Up function

Contact 13 connect with **O2**;
Lowering function

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Control unit: WA20

Integration device from FIBARO: FGS-222
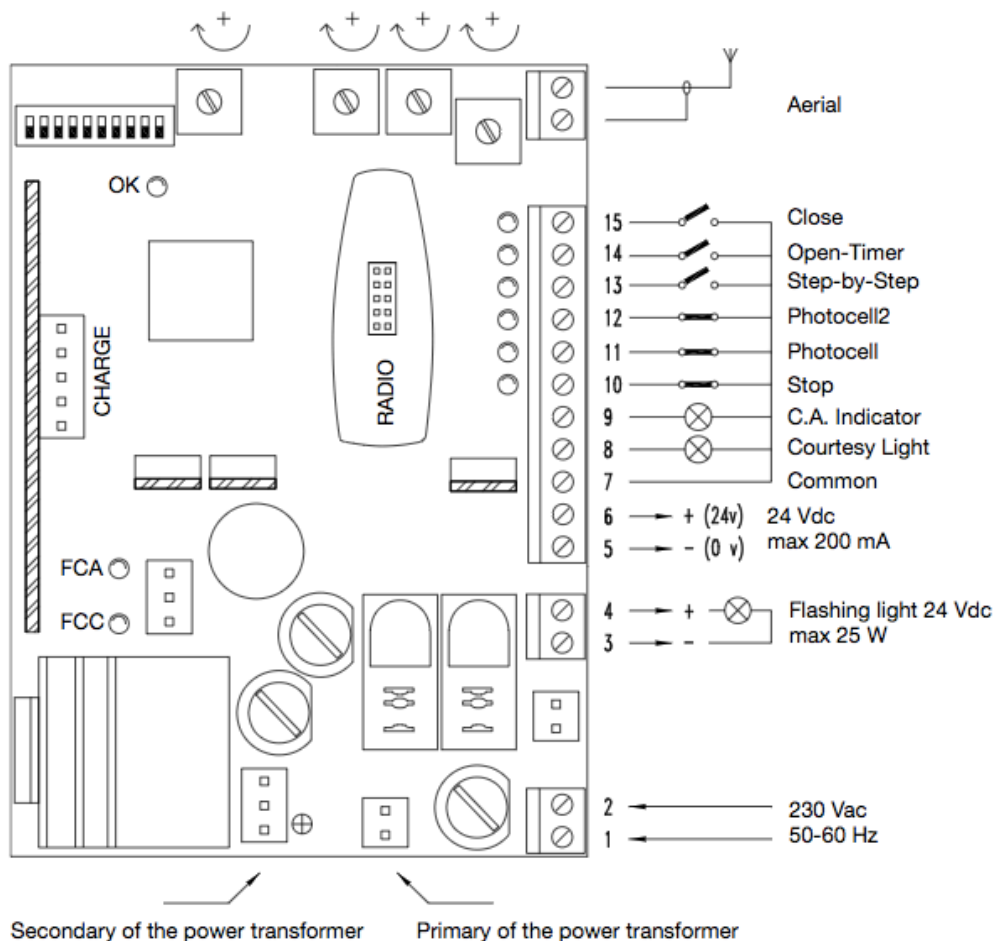**Power supply:** 24VDC z zewnętrznego zasilacza

Connection:

Contact 7 connect with **IN**

Contact 13 connect with **O1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 15 connect with **O2**; Close function

Open function possible– Contact **14**. It is recommended to use second FGS module.

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Control unit: WA20A

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

Contact 7 connect with **OUT 1 i OUT 2**

Contact 13 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 15 connect with **OUT 2**; Close function

Open function possible– Contact **14**. It is necessary to use second FGBS module.

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Control unit: WIIA20

Integration device from FIBARO: FIBARO Smart Implant
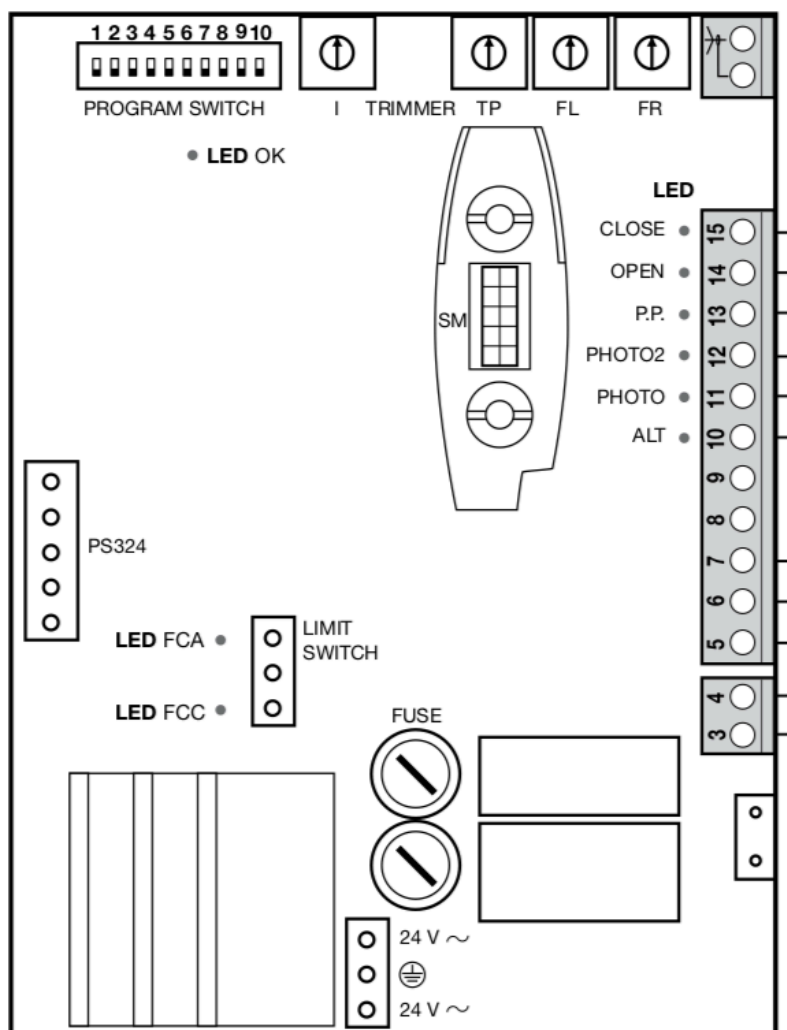**Power supply:** 24VDC

Connection:

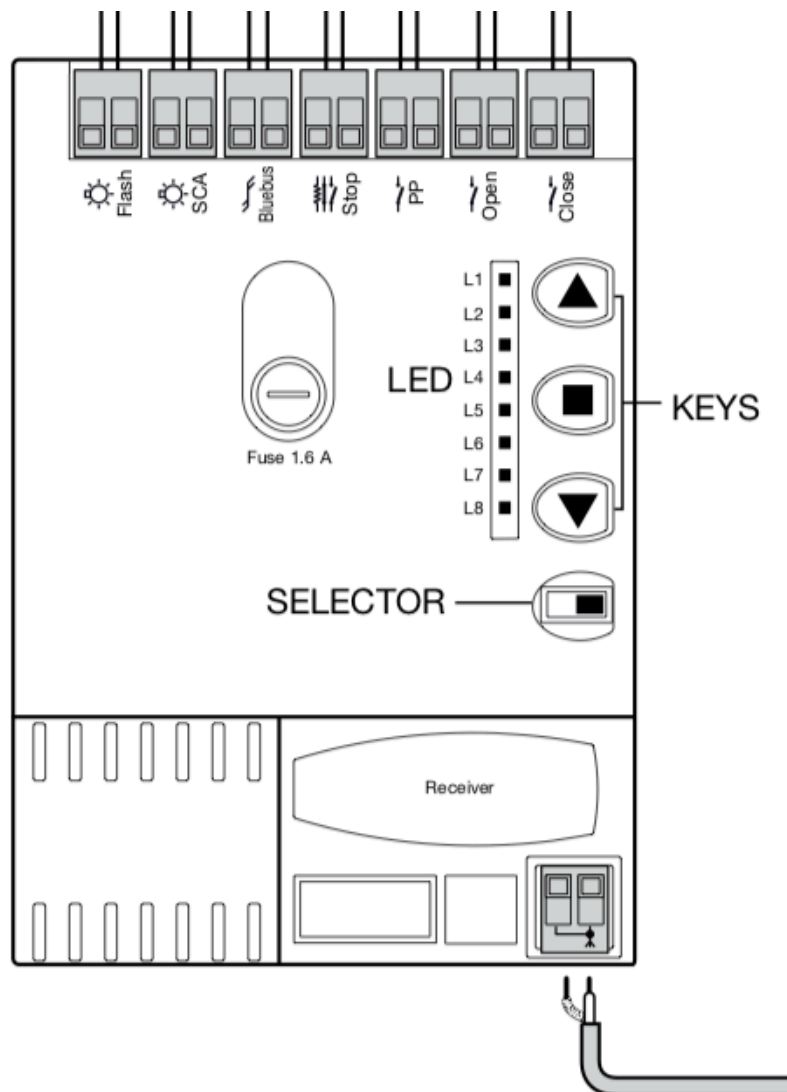**Contact 7** connect with **OUT 1 i OUT 2**

Contact 13 connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact 15 connect with **OUT 2**; Close function

Open function possible– Contact **14**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: RBA3/C

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC
Connection:

Contact PP connect with **OUT 1**
Contact PP connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Contact CLOSE connect with **OUT 2**

Contact CLOSE connect with **OUT 2**; Close function
Open function possible– Contact **OPEN**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: RBA3/C R10

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC
Connection:
Contact Sbs connect with **OUT 1**
Contact Sbs connect with **OUT 1**; Function Step by
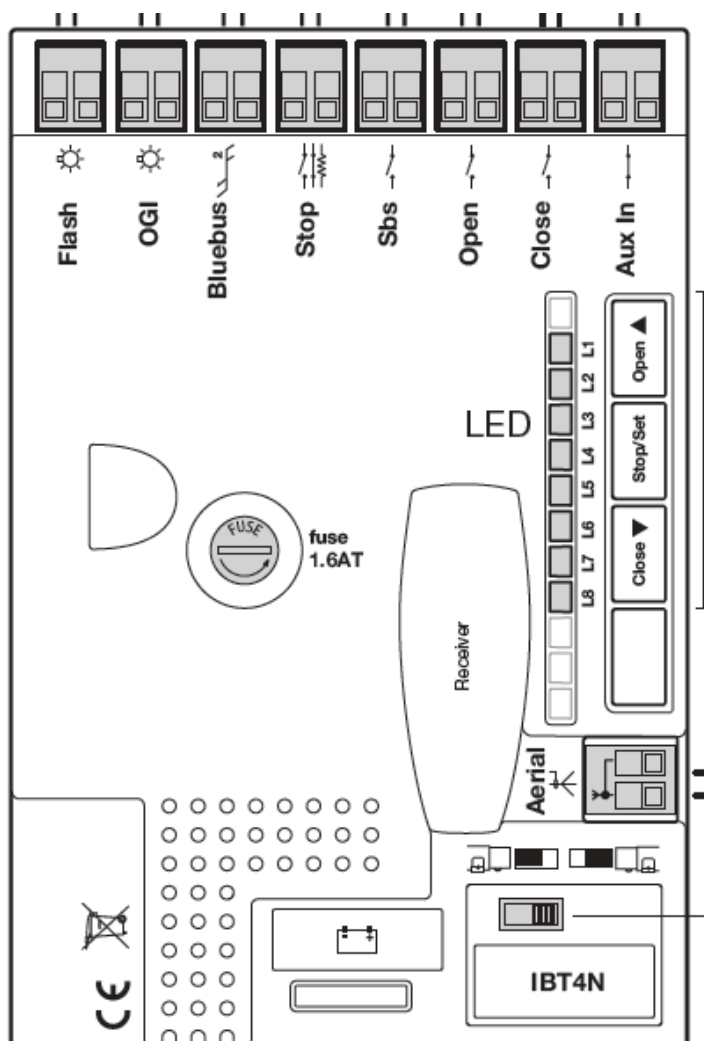Step (Open - Stop - Close - Stop)

Contact CLOSE connect with **OUT 2**

Contact CLOSE connect with **OUT 2**; Close function
Open function possible– Contact **OPEN**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: XBA3

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:
Możliwość zastosowania drugiego modułu FGS

Contact PP connect with **OUT 1**
Contact PP connect with **OUT 1**; Function Step by
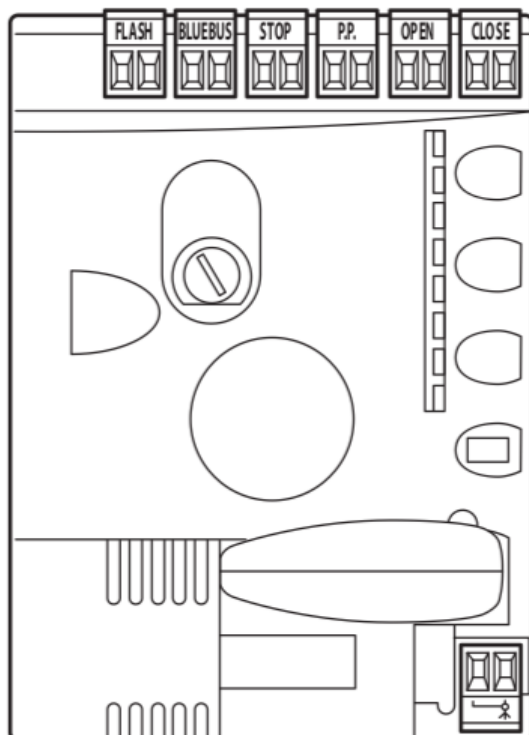Step (Open - Stop - Close - Stop)

Contact CLOSE connect with **OUT 2**

Contact CLOSE connect with **OUT 2**; Close function
Open function possible– Contact **OPEN**. It is necessary to use second FGBS module.
NOTICE! It is recommended to use this function.

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Control unit: SNA2
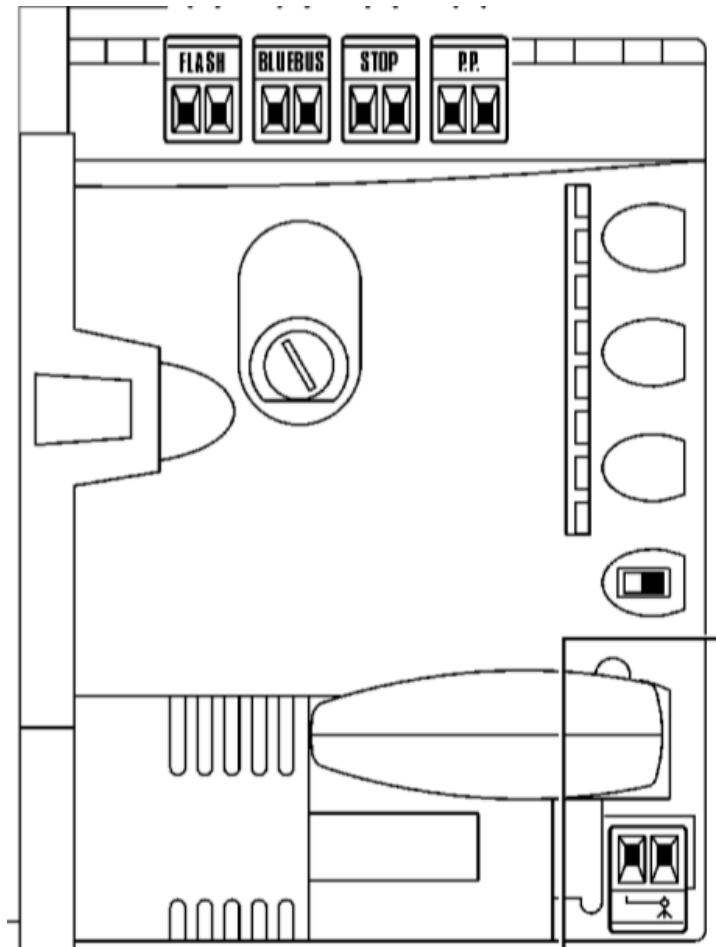
Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

Contact PP connect with **OUT 1**

Contact PP connect with **OUT 1**; Function Step by

Step (Open - Stop - Close - Stop)

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Control unit: SPSNA2R10

Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:

Contact SBS connect with **OUT 1**

Contact SBS connect with **OUT 1**; Function Step by
Step (Open - Stop - Close - Stop)

Open function possible– Contact **OPEN**.
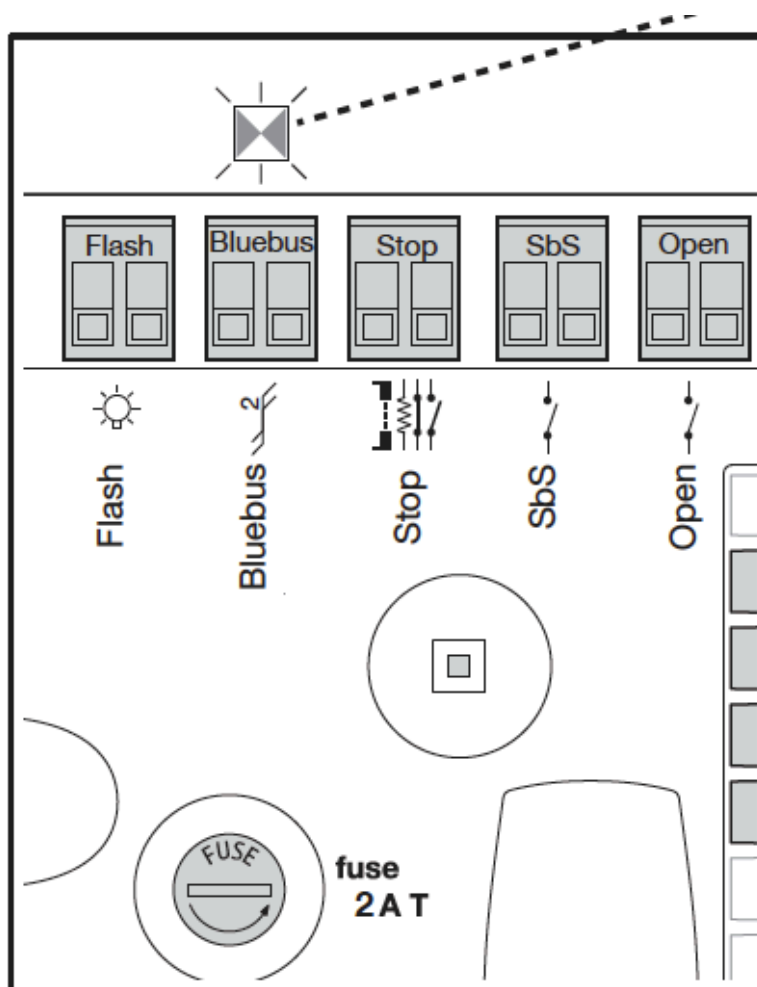
Control unit: D-Pro Action
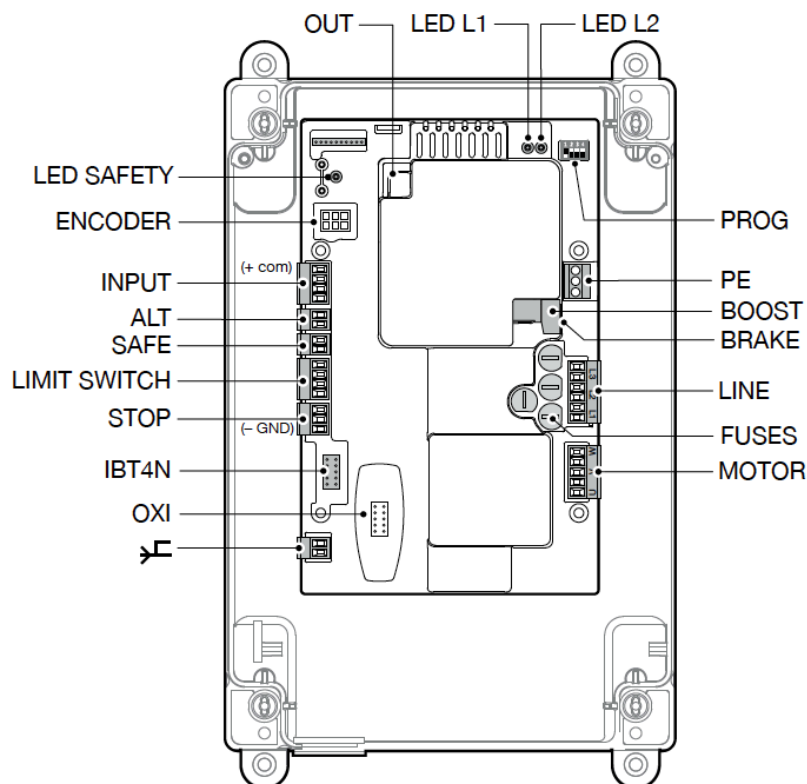
Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC
Connection:

Contact 8 + COM connect with **OUT 1 i OUT 2**

Contact 9 OPEN connect with **OUT 1**; Function Open

Contact 10 CLOSE connect with **OUT 1 i OUT 2**; Close function

Możliwość wykorzystania funkcji Step by Step – **Contact 11**. It is necessary to use second FGBS module and proper Home Center configuration.

Control unit: D-Pro Automatic
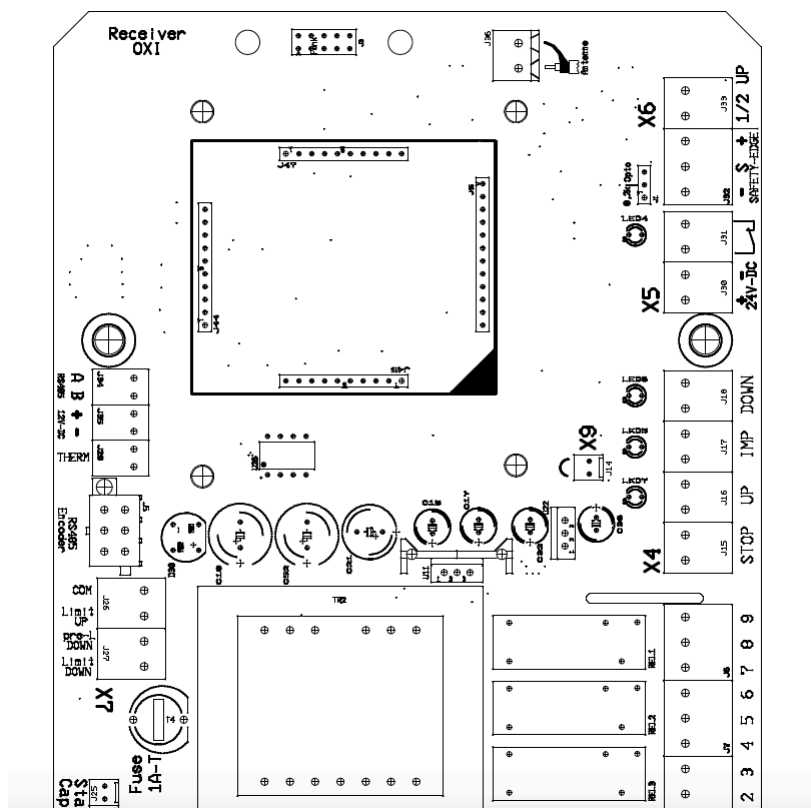
Integration device from FIBARO: FIBARO Smart Implant
Power supply: 24VDC

Connection:
It is possible to use two FGS modules

Contact J18 connect with **OUT 1**
Contact J18 connect with **OUT 1**; Close function

Contact J16 connect with **OUT 2**
Contact J16 connect with **OUT 2**; Open function

Possibility of using STOP function – **Contact J15**. It is necessary to use second FGBS module.

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CUSTOMER BENEFITS

- Possibility of control the gate from any place in the world.
- Gate state monitoring using additional Smart Implant or Door/Window Sensors.
- Gate control based on GPS position.
- Integrated with entire hose – roller blinds, lights, gates, heating system and AV system. Control from single remote or APP.
- Emergency opening in case of CO detection.
- Emergency opening in case of SMOKE detection.
- Smart Watch or Android Gear integration.
- Control the gate using FIBARO Intercom – PINs, Scenario, BLE with Proximity
- Gate integrate with CCTV, picture from the monitoring when gate is opened.
- Opening and closing notifications.
- Integrated with alarm system – open the gate when alarm is armed, prepare the house for leaving. System will close the gate after 30 seconds.
- Possibility of using voice assistants like Amazon Alexa, Google Home and SIRI.
- Fast and simple gate opening using smartphone widgets.
- Turn on "I am coming home" scene. Turn on the lights, music, open the blinds, turn on faster ventilation step.
- Turn off heating in the garage when gate is opened.
- Energy and power measurements.

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Use Cases Examples

INTEGRATION SCENARIOS – GATES AND GARAGE DOORS

INTEGRATION SCENARIO	INTEGRATION ELEMENT
Voice assistant integration for entrance gate control	Amazon Alexa / Google Home / FIBARO Smart Implant / FIBARO Home Center / NICE Control Unit
Control garage gate, entrance gate and roller blinds using single remote controller.	FIBARO KeyFob or FIBARO Button / NICE Control Unit
Control garage gate and entrance gate using gestures.	FIBARO Swipe / FIBARO Smart Implant / NICE Control Unit
Open garage doors in case of CO detection.	CO Sensor / FIBARO Smart Impalnt / FIBARO Home Center / NICE Control Unit
Open garage gate and entrance gate from any place in the world.	FIBARO Smart Implant / FIBARO Home Center / NICE Control Unit
Open the garage doors for 2 minutes when alarm system is armed.	FIBARO Smart Implant / FIBARO Home Center / NICE Control Unit / Kompatybilny system alarmowy
Push or e-mail notification where garage doors are opened.	FIBARO Smart Implant / FIBARO Home Center / NICE Control Unit
Remote gates state monitoring.	FIBARO Door/Window Sensor 2 / FIBARO Home Center
Open the gate automatically in case of smoke or CO detection.	FIBARO CO Sensor / FIBARO Smoke Sensor / FIBARO Smart Implant / Centrala HC / NICE Control Unit
Push or e-mail notification in case when gate is closed.	FIBARO Door/Window Sensor 2 or Fibaro UBS / FIBARO Home Center
Garage system monitoring (alarm system + CCTV)	FIBARO Home Center and integrated alarm system or CCTV System

USE CASES INTEGRATIONS – ROLLER BLINDS

Open the roller blinds when Sunset	FIBARO Roller Shutter 3 / Scene with Home Center
Close the roler blinds after 7PM	FIBARO Roller Shutter 3 / Scene with Home Center
Close the roler blinds in case of strong wind	FIBARO Roller Shutter 3 / Scene with Home Center
Control the roller blinds based on alarm system state	FIBARO Roller Shutter 3 / Scene with Home Center / Integrated alarm system
Turn on "home cinema" scene.	FIBARO Roller Shutter 3 / Scene with Home Center
Control the roller blind tilts.	FIBARO Roller Shutter 3 / Scene with Home Center
Control everything from single place	FIBARO Roller Shutter 3 / Scene with Home Center / Button / Key Fob
Open the roller blinds in case of CO detection.	FIBARO Roller Shutter 3 / HC / Integrated alarm system / CO / Smoke
Control the roller blinds based on the weather conditions.	FIBARO Roller Shutter 3 / Scene with Home Center / Integrated weather station
Roller blinds and air conditioning integration	FIBARO Roller Shutter 3 / Scene with Home Center / Integrated thermostat
Control the roller blinds based on the light intensity.	FIBARO Roller Shutter 3 / HC / Motion Sensor
Control the roller blinds based on the GPS signal	FIBARO Roller Shutter 3 / Scene with Home Center
Control the awnings based on the wind speed.	FIBARO Roller Shutter 3 / Scene with Home Center / Integrated weater station
Close the blinds when lock is closed.	FIBARO Roller Shutter 3 / Scene with Home Center / Zamek Z-Wave
Open the blinds when lock is opened.	FIBARO Roller Shutter 3 / Scene with Home Center / Zamek Z-Wave
Control the gate and roller blinds from one place.	FIBARO Roller Shutter 3 / Scene with Home Center / Button / Key Fob / Swipe / Relay Switch
Control the roller blinds and gate using alarm system touchpanel.	FIBARO Roller Shutter 3 / Scene with Home Center / Alarm system integration
Control the blinds using FIBARO Intercom PIN number.	FIBARO Roller Shutter 3 / HC / Intercom