





NICE SOLEMYO AIR NET SYSTEM

Automation safety devices becomes wireless control systems!
 Photocells, sensitive edge and flashing lightings all acquire a new function:
 power is supplied by means of an integral miniature solar panel.
 The solar panel powers rechargeable batteries to ensure independent operation
 of the automation system in any conditions.



1. Era Light Solemyo
Flashing light



2. Kit Solemyo
Solar power kit



3. Era TCW Solemyo
Sensitive edge transmitter



4. Era Photocell Solemyo
Photocell



5. Era Post Solemyo
Solemyo Era Photocell Post



SOLEMYO

SOLEMYO 24V

Solemyo is the solar power system to automate gates, garage doors and road barriers, even those located far from the electrical mains.

Solemyo is available both in kit version and single products.

Installable anywhere without the need for connections or excavations, even in the most remote locations or those difficult to access with the power mains.

Increased savings and respect for the environment thanks to solar energy, free and clean: an ecological and intelligent choice with short term benefits.

Low consumption with no risk of blackouts: the extended duration of the energy reserve, combined with the low consumption of the automations, guarantee operation also in prolonged overcast conditions.

THE KIT CONTAINS:

SYP: PHOTOVOLTAIC PANEL FOR 24 V SUPPLY.
PSY24: 24 V BATTERY BOX WITH CONTROL CIRCUIT AND CARRY HANDLES. IT STORES THE ELECTRICAL ENERGY PRODUCED BY THE SYP PANEL, WITH CONTINUOUS AND PERMANENT SUPPLY THROUGHOUT THE DAY.
CABLES AND CONNECTORS NECESSARY FOR THE CONNECTION.



SYKCE

PSY24

SYP

Less consumption, more autonomous operation!

Perfect operation ensured even at night time or in prolonged overcast conditions, guaranteeing comfort and safety.

Ease of use

The SYA1 auxiliary power supply unit enables rapid battery charging via a 230 Vac power mains, as an alternative to the photovoltaic module. Battery charge status LED indicators.

Installation advice

If two or more parallel-connected solar panels have to be installed, purchase individually the items that make up the Solemyo system to increase the system's charging capacity or use just one SYA1 transformer to charge several PSY24 battery boxes.

CODE	DESCRIPTION	PACK/PALLET
SYKCE	SOLAR POWER KIT COMPRISING SYP PHOTOVOLTAIC PANEL AND PSY24 BATTERY BOX WITH CHARGING CONTROL CIRCUIT	21
SYP	PHOTOVOLTAIC PANEL FOR 24 V SUPPLY WITH MAXIMUM POWER 15 W	
SYP30	PHOTOVOLTAIC PANEL FOR 24 V SUPPLY WITH MAXIMUM POWER 30 W	
PSY24	24 V BATTERY BOX WITH CONTROL CIRCUIT AND CARRY HANDLES	

N.B. The content of the package may vary: consult the retailer.

TECHNICAL SPECIFICATIONS

CODE	PSY24	SYP30	SYP	SYA1
POWER SUPPLY (Vac 50/60 Hz)		-		110 ÷ 240
RATED VOLTAGE (V)		24		-
MAXIMUM CURRENT (A)	10		-	
PEAK POWER (Wp)	-	30	15	-
MAXIMUM POWER (W)		-		60
RATED BATTERY CAPACITY (Ah)	20		-	
PROTECTION LEVEL (IP)	44		-	
WORKING TEMP. (°C MIN/MAX)	-20 ÷ +50*		-40 ÷ +85	0 ÷ +40
COMPLETE RECHARGING TIME (HOURS)	~ 15**		-	
DIMENSIONS (mm)	235x170x258 h	450x25x550 h	390x28x415 h	132x58x30 h
WEIGHT (kg)	14	3.5	1.9	0.345

* 0 ÷ 40 if recharged from the power mains with SYA1 power supply unit.

** Using the power supply unit via the mains.

ACCESSORIES



SYA1
 POWER SUPPLY UNIT FOR CHARGING THE BATTERY PSY24 FROM THE SUPPLY MAINS.

PC/PACK 1

INSTALLATION DIAGRAM



FLEXIBLE: SOLEMYO ADAPTS PERFECTLY TO ALL TYPES OF INSTALLATION.



The SYP30 photovoltaic panel, sold individually, is ideal in all the situations with low exposure to the sun or automations with high intensity of use.

NICE SOLEMYO AIR NET SYSTEM

NEW

So many benefits!

Quick installation: no need to lay wiring to connect the accessories to the control unit, drilling holes or laying raceways: just position them as appropriate and let the control unit identify them.

Devices interface with the control unit by means of a special, very compact interface module that can be fitted directly inside the motor, or the control unit, if separate.

Better appearance, flexible positioning of devices over time:

it is very easy to add (or remove) devices, with no need to search for a mains connection point or a contact for series connection.

Extremely reliable transmission:

the radio system allows two-way communication -

each device does not just respond to the control unit's instructions but sends a feedback signal, confirming that it is present and operational, and it also signals the occurrence of events such as the passage of an object between the two photocells.

Operating Frequency: 868 MHz, less liable to interference.

Two separate channels are used, for a 100% guarantee of the system's operation and safety even in case of sudden interference.

Intelligent system: it detects whether any interference is from another Nice wireless automation unit.

In this case, the "new" automation system just installed selects two communication channels different from those used by the existing system, keeping the two systems' channels separate.

Each device has LEDs in the bottom indicating the signal quality and troublefree operation of the system, which can be checked immediately in the event of malfunction or at first start-up.

A LED flashes when the device is receiving enough solar power to allow recharging.

Solemyo Era Photocell

Pair of PHW two-way wireless photocells, with photovoltaic cell power supply.

Easy installation: the receiver photocell has a special LED that indicates the degree of alignment with the transmitter photocell, very useful during initial installation.

Solemyo Era Light

Wireless LLW flashing light, with extremely high-efficiency LEDs lower consumption and virtually unlimited lifetime (no more blown lamps needing frequent changing).

Light output adapts to ambient conditions to ensure good visibility even in direct sunlight and to save energy during the hours of darkness.

Can be used as flashing signal or courtesy light.

COMPATIBILITY/INTERFACE TABLE

	PHW	LLW	TCW1	TCW2
Control units with BLUEBUS system (*)	With IBW	With IBW	With IBW (**)	With IBW (**)
Control units without BLUEBUS system	Not possible	Not possible	With IRW	With IRW

(*) There may be any limitations on the number of devices managed.

(**) Not managed in automation for swing gates (MC824H; Walky; Hopp; Hyke) and in some automations for garage doors (SN6020*; SN6021*; SPIN2*; SPIN20*; SPIN21*; SPOK).

CODE	DESCRIPTION	PC/PACK
PHW	PAIR OF WIRELESS PHOTOCELLS WITH BUILT-IN PHOTOVOLTAIC PANEL	1
PPH1	PHW PHOTOCELL POST, h. 50 cm	1
PHWA1	PAIR OF ADAPTERS FOR PHW ON PPH1 POSTS	1
LLW	WIRELESS FLASHING LIGHT WITH BUILT-IN PHOTOVOLTAIC PANEL	1
IBW	INTERFACE BETWEEN PHW/LLW AND CONTROL UNITS WITH BLUEBUS SYSTEM	1



ERA TCW

NICE&SAFE

NEW

Even safer automation thanks to the Nice Solemyo Air Net System's new sensitive edge sensors.

No connection, totally wireless, powered by the sun.

Energy saving

thanks to the solar power cell built into the TCW2, with rechargeable batteries.

Version with battery-only operation is also available in case of installations with low exposure to sunlight.

Unbeatable safety thanks to the "wireless" system for detection and communication between sensitive edge, interface and control unit, allowing swift action when an obstacle is detected.

Quick and easy to install:

maximum flexibility in installing the devices.
Possibility of connection to 8.2 KOhm resistive sensitive edges.

State-of-the-art technology: IBW interfaces, for Nice BlueBus-compatible control units, and **IRW,** interfaces, for control units without BlueBus connection, allow radio communication with **TCW** sensors.

Suitable for any architectural context

Compact size: 99x49x33.



TCW2



TCW1

CODE	DESCRIPTION	PC/PACK
TCW1	BATTERY -POWERED WIRELESS TRANSMITTER FOR SENSITIVE EDGES. SUITABLE FOR INTERNAL USE OR SPARSELY SUNNY AREAS	1
TCW2	PHOTOVOLTAIC PANEL AND RECHARGEABLE BATTERY-POWERED WIRELESS TRANSMITTER FOR SENSITIVE EDGES. SUITABLE FOR EXTERNAL USE OR SUNNY AREAS	1
IBW	BLUEBUS WIRELESS INTERFACE FOR SENSITIVE EDGES WITH WIRELESS TRANSMITTER FOR BLUEBUS SYSTEM CONTROL UNITS	1
IRW	RELAY WIRELESS INTERFACE FOR SENSITIVE EDGES WITH WIRELESS TRANSMITTER FOR CONTROL UNITS WITH CLASSICAL CONNECTIONS (STOP AND PHOTO)	1

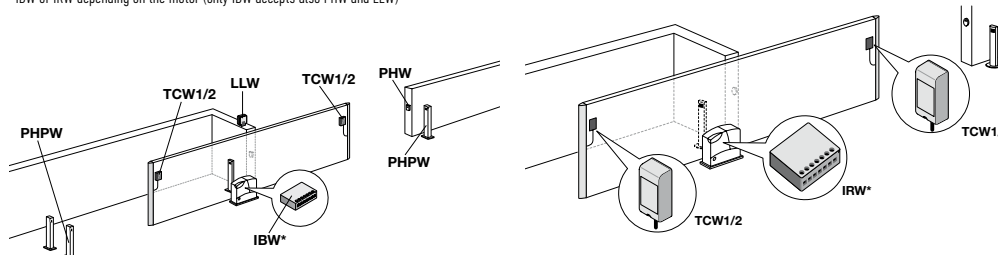
TECHNICAL SPECIFICATIONS

CODICE	TCW2	TCW1
TECHNOLOGY USED	RADIO DATA RECEPTION AND TRANSMISSION, WITH CHOICE OF 2 FREQUENCIES IN THE 868 MHz BAND	
POWER SUPPLY	PHOTOVOLTAIC CELL WITH ELECTRICITY STORED IN A RECHARGEABLE AAA NIMH BATTERY	2 ALKALINE BATTERIES
BATTERY LIFE	ESTIMATED 4-5 YEARS *	ESTIMATED 2-3 YEARS, WITH 1200 MAH ALKALINE BATTERIES
MAXIMUM NUMBER OF OPERATIONS PER DAY	15 OPERATIONS LASTING NO MORE THAN 1 MINUTE (1 CYCLE = OPENING + CLOSING)	
SENSITIVE EDGE (RS) INPUT RANGE	TYPICALLY 8,2 KOhm	
RADIO OPERATING RANGE (MAX)	20M (40M)	
FAILSAFE CATEGORY	2 (UNDER EN 945-1 STANDARD) DEPENDING ON "FOTOTEST" INPUT AND OUTPUT CONNECTION TYPE	
HOUSING PROTECTION RATING	IP44	
OPERATING TEMPERATURE	-20 ÷ +55°C	
DIMENSIONS (mm)	99x49x33	
WEIGHT (g)	130	145

* The stated estimates refer to edges functioning for about 15 operations per day, with complete cycle time of 60 seconds (900 seconds per day).

INSTALLATION DIAGRAM

*IBW or IRW depending on the motor (only IBW accepts also PHW and LLW)



TCW + IBW

The IBW is connected to the control unit's BlueBUS terminal and communicates with the TCW by radio. Compatible also with PHW wireless photocell and LLW wireless flashing light.

TCW + IRW

IRW is connected to safety input (Stop and Photo) of control unit and communicates via radio with TCW.

8.2 KOhm resistive sensitive edges, maximum safety and control of the automation.

Safer: if there are any faults in the system like, for example, the product itself has broken down, the edges will communicate this to the control unit. The TCE interface board enables users to connect sensitive edges (with 8.2 KOhm resistance) to those control units which are not equipped with a special input.

The length can be personalised:

the components supplied in the kits enable installers to build sensitive edges of the correct dimension.

Practical: they adapt to any kind of situation and can be installed quickly.

Reliable: the new Class3 technology means that the control unit, the sensitive edges are connected to, can understand if the device is functioning correctly, or if it is out of use.

8.2 KOhm analogical-type input.



TCB65



TCK



TCF



TCA65

Resistive sensitive edges and accessories

CODE	DESCRIPTION	PACK
TCB65	SENSITIVE EDGE IN 10 m ROLLS	1
TCK	KIT PUTTING TOGETHER 8 SENSITIVE EDGES COMPLETE WITH: - TERMINAL CAPS (TCT65) - CONNECTORS, COMPLETE WITH CABLE L=250 CM (TCS250) - CONNECTORS 8.2 KOHM (TCER) - TIN OF GLUE (TCC) - TIN OF PRIMER (TCP)	16 8 8 1 1
TCF	SCISSORS FOR CUTTING SAFETY SENSITIVE EDGES	1
TCA65	ALUMINIUM PROFILE L=200 CM	5
TCE	CONTROL INTERFACE FOR SENSITIVE EDGE	1

Electrical connection devices for safety sensitive edges on moveable leaves

CODE	DESCRIPTION	PACK
DBM5	COMPLETE KIT FOR GATES UP TO 5 m	1
DBM7,5	COMPLETE KIT FOR GATES UP TO 7.5 m	1
DBM10	COMPLETE KIT FOR GATES UP TO 10 m	1

Instruments and software for force impact measurement

CODE	DESCRIPTION
NSFB	BLUEFORCE INSTRUMENT FOR MEASURING THE IMPACT FORCE COMPLIANT WITH EN12445, WITH BLUETOOTH/USB INTERFACE AND SOFTWARE INCLUDED, COMPLETE WITH CARRY CASE
NSFS	SPEEDFORCE INSTRUMENT FOR MEASURING THE IMPACT FORCE COMPLIANT WITH EN12445, WITH USB INTERFACE AND SOFTWARE INCLUDED COMPLETE WITH CARRY CASE
NSEL	STRAIGHT EXTENSION FOR MEASUREMENTS FROM 30 TO 50 CM, APPLICABLE ON NSFB AND NSFS
NSEA	ANGULAR EXTENSION FOR MEASUREMENTS FROM 1.25 TO 2.50 m, APPLICABLE ON NSEL
NSSWPDA	BLUEFORCE PDA SOFTWARE FOR POCKET-PC, FOR NSFB



TCE



DBM5, DBM7,5, DBM10



NSFB, NSFS

Mechanical sensitive edges, more safety and easy installation.

CMA is the pre-assembled, high mechanical edge consisting in aluminium profiles of 1.5 - 1.7 - 2 - 2.5 m in length; ideal for assembly on sliding or swing gates.

CMBK is the kit for installing a low mechanical edge: for edges max. 4 m (CMBK4) and for edges max. 6 m (CMBK6), ideal for garage doors in general, up-and-over and sectional doors.

CB is a protective rubber pad. Fitted to the CMBK4/CMBK6 kit, it forms the low mechanical edge.

Mechanical sensitive edges

CODE	DESCRIPTION	PACK
	HIGH MECHANICAL EDGE WITH ALUMINIUM PROFILES IN SECTIONS MEASURING 1.5 - 1.7 - 2 - 2.5 m IN mm 36x75 h:	
CMA 1,5MT	LENGTH 1.5 m	1
CMA 1,7MT	LENGTH 1.7 m	1
CMA 2MT	LENGTH 2 m	1
CMA 2,5MT	LENGTH 2.5 m	1
CB	PROTECTIVE RUBBER PAD FOR LOW ROLLED MECHANICAL EDGE AND ALUMINIUM PROFILES IN SECTIONS MEASURING 2 m; DIMENSIONS IN mm 23x44 h	40
CMBK4	KIT FOR INSTALLING A LOW MECHANICAL EDGE, WITH ALUMINIUM PROFILES MEASURING 4 m (TO USE TOGETHER WITH CB)	1
CMBK6	KIT FOR INSTALLING A LOW MECHANICAL EDGE, WITH ALUMINIUM PROFILES MEASURING 6 m (TO USE TOGETHER WITH CB)	1

Passive sensitive edges

CODE	DESCRIPTION	PACK
TCBS60	PASSIVE SENSITIVE EDGE IN 10 m ROLLS	1



CMA



CB



TCBS60

Inductive magnetic detector loop.

Magnetic sensor for the detection of metal objects.

Simple and safe: operation and parameters are easily controlled, checked and programmable via the LCD display.

Quick and versatile: unlimited functions and simple, intuitive programming.

Integrated measurement system

Automatic indication of loop inductance.

CODE	DESCRIPTION	PACK
LP1	SINGLE-CHANNEL METAL MASS DETECTOR 24 V POWER SUPPLY	1
LP2	TWO-CHANNEL METAL MASS DETECTOR 24 V POWER SUPPLY	1



LP1, LP2

FT210

NICE&SAFE

BLUEBUS

Optical device, with wireless transmitter to secure on moveable leaf, horizontally adjustable through 210° and 30° vertically, for an automation according to Standards.

Consideration towards personal safety and product quality.

The safety level of the main edge, required by the EN12453 standard, can be achieved for any "type of use" and any "type of activation" by integrating a FT210/FT210B device to an 8.2 KOhm TCB65 type resistive sensitive edge.

The FT210/FT210B device, integrated with a "resistive" sensitive edge (8.2 KOhm), is safe against individual faults (category 3 according to the EN 954-1 standard) or can be used with automated systems with self-diagnosis at the start of every manoeuvre (category 2 according to the EN 954-1 standard).

Additional models

Versions with relay output (FT210), with Nice BlueBUS technology (FT210B), available with 2 Ah (FTA2) and 7Ah (FTA1) battery Kit, for intensive use.

Cutting-edge technology

The anti-collision circuit avoids interference with other out-of-sink receivers.

The FT210/FT210B optical devices are equipped with a special sensor capable of recognizing when the gate is motionless, which remains in a low consumption mode and activates only when the gate is in motion. Range adjustable on 2 levels; alignment with proportional LED for easy and safe installation.

Suitable for any architectural environment and easy to install

Reduced dimensions: 46x128x45; electrical connections can also be made from the lower section of the box.

Resilient and safe

Polycarbonate casing; FA1 vandal-proof metal shell (optional); low transmitter battery indicator.



MOCF2

MOCF



FA1, FA2

CODE	DESCRIPTION	PC/PACK
FT210	PAIR OF OPTICAL DEVICES FOR SENSITIVE EDGES FASTENED ON MOVING DOOR, CAN BE SWIVELLED THROUGH 210° WITH RELAY OUTPUT. BATTERY KIT (FTA1/FTA2) COMPULSORY	1
FT210B	PAIR OF OPTICAL DEVICES FOR SENSITIVE EDGES FASTENED ON MOVING DOOR, CAN BE SWIVELLED THROUGH 210° WITH BLUEBUS TECHNOLOGY. BATTERY KIT (FTA1/FTA2) COMPULSORY	1

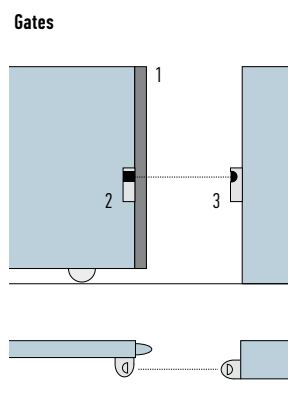
TECHNICAL SPECIFICATIONS

	Estimated range (m)	Power supply	Absorption	Protection rating (IP)	Working temp. (°C Min/Max)	Range relè	Dimensions (mm)	Weight (g)
FT210	10 (residential), 15 (industrial)	RX: 12-24 Vac/Vdc limits: 18-35 Vdc, 10-28 Vac TX: 3.6 V lithium battery	RX: 120 mA - 12 V, 70 mA - 24 V TX: 20 uA gate not moving, 450 uA gate operating	44	-20 ÷ +55	max 500 mA and 48 V	46x45x128 h	300
FT210B		RX: the device can only be connected to "BlueBUS" networks	1 BlueBUS unit TX: 20 uA gate not moving, 450 uA gate operating					280

ACCESSORIES

CODE	DESCRIPTION	PC/PACK
FA1	VANDAL-PROOF METAL SHELL	2
FA2	BRACKET FOR FIXING TO MOCF AND MOCF2 COLUMNS	5
FTA1	7 Ah BATTERY KIT FOR FT210/FT210B TRANSMITTERS, FOR INTENSIVE USE	1
FTA2	2 Ah BATTERY KIT FOR FT210/FT210B TRANSMITTERS	1
MOCF2	ALUMINIUM POST FOR 2 PHOTOCELLS, 1000 mm HIGH	2
MOCF	ALUMINIUM POST FOR 1 PHOTOCELL, 500 mm HIGH	2

Gates



1. TCB65, RESISTIVE SENSITIVE EDGES
2. TX FT210 POWER SUPPLY WITH BATTERY
3. RX FT210.

F210

BLUEBUS

Synchronised photocells horizontally adjustable through 210° and 30° vertically. Simply perfect installations.

The 210° solution

The beam of the Nice F210 and F210B photocells has a horizontal scope of 210°, thereby increasing the safety level of the system and simplifying installation: the gate or garage door to be automated quite often slide flush with the wall making it very difficult to position the photocell.

Numerous models and countless advantages

The new photocells are available with relay output (F210) or with the Nice BlueBUS technology (F210B).

With the BlueBUS technology, all devices can be easily connected to the control unit with just two wires.

Sensors with the BlueBUS technology can be connected to incompatible control units by means of an IB interface. The devices that are connected to the BlueBUS network are automatically acquired by the system.

Suitable for any architectural environment and easy to install

Reduced dimensions: 46x128x45 mm; electrical connections can also be made from the lower section of the box.

Resilient and safe

Polycarbonate casing; FA1 vandal-proof metal shell (optional).

Cutting-edge technology

The problem of interference between the sensors and the automatic synchronisation between several pairs of photocells is solved by the anti-blinding circuit; high range adjustable on 2 levels; synchronising circuit; alignment with proportional LED for easy and safe installation.



F210, FA1



MOCF2

MOCF

CODE	DESCRIPTION	PC/PACK
F210	PAIR OF SYNCHRONISED PHOTOCELLS ADJUSTABLE THROUGH 210°, WITH RELAY OUTPUT	1
F210B	PAIR OF SYNCHRONISED PHOTOCELLS ADJUSTABLE THROUGH 210°, WITH THE NICE BLUEBUS TECHNOLOGY	1

TECHNICAL SPECIFICATIONS

	Estimated range (m)	Power supply	Absorption	Protection rating (IP)	Working temp. (°C Min/Max)	Range relè	Dimensions (mm)	Weight (g)
F210	10 (30 with jumper cut)	without jumper 24 Vac/Vdc limits: 18-35 Vdc, 15-28 Vac with jumper 12 Vac/Vdc limits: 10-18 Vdc, 9-15 Vac	25 mA RX, 30 mA TX	44	-20 ÷ +55	max 500 mA and 48 V	46x45x128 h	230
F210B		the device can only be connected to "BlueBUS" networks	1 BlueBUS unit			-		

ACCESSORIES

CODE	DESCRIPTION	PC/PACK
IB	INTERFACE FOR CONNECTING BLUEBUS F210B PHOTOCELLS UP TO CONTROL UNITS WHICH HAVE NOT BEEN MANUFACTURED FOR THIS PURPOSE	1
FA1	VANDAL-PROOF METAL SHELL	2
FA2	BRACKET FOR FIXING TO MOCF AND MOCF2 COLUMNS	5
MOCF2	ALUMINIUM POST FOR 2 PHOTOCELLS, 1000 mm HIGH	2
MOCF	ALUMINIUM POST FOR 1 PHOTOCCELL, 500 mm HIGH	2

TECHNICAL SPECIFICATIONS

	Power supply	Current draw with 24 Vdc power supply	Current draw with 24 Vdc power supply	BlueBUS output	Protection rating (IP)	Working temp. (°C Min/Max)	Dimensions (mm)	Weight (g)
IB	16÷35 Vdc 18÷28 Vac	50 mA (add approx. 50 mA for each pair of photocells)	44 mA (add approx. 44 mA for each pair of photocells)	one with maximum load of 9 BlueBUS units	30	-20 ÷ +55	86x58x22 h	72



IB



FA1, FA2

MOONBUS

BLUEBUS

Fixed or adjustable, synchronised photocells with BlueBUS technology.

The **MOFB** and **MOFOB** photocells are obstacle detectors which make it possible to detect obstacles on the optical axis between a transmitter (TX) and a receiver (RX), type D according to Standard EN12453.

They can be used in automations for gates and doors.

These devices are equipped with the **BlueBUS** communication system which makes it easy to connect all the devices up to the control units using two wires only. They are all quite simply connected up in parallel, and the addressed jumpers selected according to the function required.



Cutting-edge technology:

an anti-blinding circuit that makes it possible to solve the problem of interference between the detectors and automatic synchronisation between several couples of photocells.

The **MOFOB** version, which can be adjusted, will solve the problem of compensating centring gaps up to 30°.

IB Interface: enables the user to connect obstacle detectors using BlueBUS technology (MOFB and MOFOB photocells) and control units with inputs for traditional, photocell contacts. The system automatically recognizes the devices connected to the BlueBUS network. The phototest function enables users to achieve Safety Category 2 against faults according to Standard EN 954-1.

CODE	DESCRIPTION	PC/PACK
MOFB	SURFACE-MOUNTED PAIR OF PHOTOCELLS FOR CONNECTION BY NICE BLUEBUS	1
MOFOB	PAIR OF ADJUSTABLE 30°, SURFACE-MOUNTED PHOTOCELLS FOR CONNECTION BY NICE BLUEBUS	1
IB	INTERFACE FOR CONNECTING BLUEBUS MOFB AND MOFOB PHOTOCELLS UP TO CONTROL UNITS WHICH HAVE NOT BEEN MANUFACTURED FOR THIS PURPOSE	1

TECHNICAL SPECIFICATIONS

	Power supply/output	Adjustability of the photocell	Estimated range (m)	Protection rating (IP)	Working temp. (°C Min/Max)	Dimensions (mm)	Weight (g)
MOFB	the device can only be connected to "BlueBUS" networks, from which it receives its power supply and sends output signals	-	up to 15 m for a maximum TX-RX misalignment of ± 5° (the device can detect and signal an obstacle even in particularly bad weather conditions)	55	-20 ÷ +55	69x25x78 h	50
MOFOB		approximately 30° along the horizontal and vertical axes				69x37x78 h	75

	Power supply	Current draw with 24 Vdc power supply	Current draw with 24 Vdc power supply	BlueBUS output	Protection rating (IP)	Working temp. (°C Min/Max)	Dimensions (mm)	Weight (g)
IB	16÷35 Vdc 18÷28 Vac	50 mA (add approx. 50 mA for each pair of photocells)	40 mA (add approx. 40 mA for each pair of photocells)	one with maximum load of 9 BlueBUS units	30	-20 ÷ +55	86x58x22 h	72



MOON

Synchronised photocells with a 10° receiving angle (MOF) also available in a 30° version adjustable in each direction (MOFO).

Ultra-thin:
just 28 mm (adjustable version: 38 mm).

Extremely hard-wearing:
transparent polycarbonate casing.

2 range levels.

Synchronisation circuit.

Alignment with proportional LED for safe and easy installation.



CODE	DESCRIPTION	PC/PACK
MOF	PAIR OF SURFACE-MOUNTED PHOTOCELLS	1
MOFO	PAIR OF ADJUSTABLE 30°, SURFACE-MOUNTED PHOTOCELLS	1

TECHNICAL SPECIFICATIONS

	Estimated range (m)	Power supply	Absorption (mA)	Protection rating (IP)	Working temp. (°C Min/Max)	Range relè	Dimensions (mm)	Weight (g)
MOF	15 (30 with jumper + "10 m" cut)	without jumper 24 Vac/Vdc limits 18-35 Vdc, 15-28 Vac	25 RX, 30 TX	54	-20 ÷ +55	max 500 mA and 48 V	69x25x78 h	55
MOFO		with jumper 12 Vac/Vdc limits 10-18 Vdc, 9-15 Vac					69x37x78 h	80



MOONTOUCHBUS

BLUEBUS

12-key digital selector with Nice BlueBUS connection technology.

Exclusive functions:

- 2 keys to activate two different commands selected from 6 available (for example step-step, close, open), depending on which control unit is connected;
- 255 combinations for storage on BM1000 memory;
- 2 programming modes: Easy or Professional;
- up to 4 MOTB and MOMB control devices connectable via BlueBUS, also in combined configurations;
- possibility of programming the number of times a specific combination can be used;
- possibility of enabling an automation block/unblock function.



Simple installation: easy and rapid connection with just 2 wires, no polarity, to complete the BlueBUS systems.

Safe: the combination is a number consisting in 1 to 9 figures, resulting in 99,999,999 possible combinations!

Two different visual indicators according to automation status:

- red: automation closed or in closing phase;
- green: during opening or when the "automation block" function is active.

Easy programming: with MOU palmtop or O-Box interface, extremely simple management of any type of programming of the BM1000 memory in the vicinity of the system, or remotely, directly from the installer's office.

MOU and O-Box interface with the PC, enabling efficient archiving of all installations.

CODE	DESCRIPTION	PC/PACK
MOTB	12-KEY DIGITAL SELECTOR, IN ALUMINIUM, WITH NICE BLUEBUS TECHNOLOGY	1

TECHNICAL SPECIFICATIONS

	Power supply	Absorption	Protection rating (IP)	Dimensions (mm)
MOTB	via BlueBUS	1.5 BlueBUS unit	54	70x30x80 h

MOONTOUCH

12-key digital switch with 2-wire connection to decoder or radio-controlled.

MOTXR: radio coding digital switches with 52 bit FLOR rolling code; compatible with FloR receivers, rolling code 4.5 million billion combinations, with self-learning function.

MOTXS: radio coding digital switches with 64 bit Smilo rolling code; compatible with Smilo transmitters, with 64 bit rolling-code, generates 18 billion million combinations, with self-learning function.

Complete: 2 transmission channels to control 2 automations.

Convenient: no wiring necessary; estimated range: 200 m outdoors and 35 m indoors.



Safe: the combination is a number consisting in 0 to 8 figures, resulting in 99,999,999 possible combinations!

Cheap: extra low consumption, the transmission will activate when the user presses the key, and switch itself off automatically. The ambient brightness sensor only activates keypad lighting when necessary.

Sturdy: vandal-proof die-cast aluminium casing, IP54.

MOT: digital switch with 2-wire connection to decoder

- 255 combinations can be entered out of a total of 999,999,999, expandable to 510;
- 2 channels;
- 2 programming modes: Easy or Professional;
- programmable output functions with pulse relay, bistable or timed relay, anti-theft feature;
- up to 4 switches can be connected by cable to the same receiver, with different active combinations.

Easy programming: with MOU palmtop or O-Box interface, extremely simple management of any type of programming of the BM1000 memory in the vicinity of the system, or remotely, directly from the installer's office.

MOU and O-Box interface with the PC, enabling efficient archiving of all installations.

CODE	DESCRIPTION	PC/PACK
MOTXR	RADIO-CONTROLLED DIGITAL SWITCH COMPATIBLE WITH FLOR SERIES OF RECEIVERS 2 CHANNELS	1
MOTXS	RADIO-CONTROLLED DIGITAL SWITCH COMPATIBLE WITH SMILO SERIES OF RECEIVERS 2 CHANNELS	1
MOT	12-KEY, ALUMINIUM DIGITAL SWITCH, FOR COMBINATION WITH DECODER MORX	1
MORX	DECODER FOR 1 MOM OR 4 MOT CONNECTED IN PARALLEL WITH MEMORY BM1000 FOR 255 COMBINATIONS	1
BM1000	ADDITIONAL MEMORY CARD FOR OTHERS 255 COMBINATIONS	5

TECHNICAL SPECIFICATIONS

	Power supply	Battery life	Frequency	Radiated power	Radio coding	Working temp. (°C Min/Max)	No. of figure combination	Estimated range (m)	Protection rating (IP)	Dimensions (mm)	Weight (g)
MOTXR	6 Vdc with 2 CR2430 type lithium batteries	estimated at 2 years, with an average number of 10 transmissions a day	433.92 MHz ± 100 KH	estimated at approximately 1 mW e.r.p.	rolling code 52 bit FloR	-20 ÷ +55	from 0 to 8	200; 35 if inside buildings	54	75x35x85 h	150
MOTXS					rolling code 64 bit Smilo						

	Night operation	Protection rating (IP)	Dimensions (mm)	Weight (g)
MOT	a red/green light will illuminate the keys	54	70x30x80 h	237

	Power supply memory	Power supply	Max. absorbed power	Protection rating (IP)	Working temp. (°C Min/Max)	Dimensions (mm)	Weight (g)
MORX	2 BM10000 for max. 510 MOCARD/MOCARDP FLOR-M or combinations	10÷35 Vdc, 12÷28 Vac	24 Vdc=70 mA 24 Vac=200 mA 12 Vdc=150 mA 12 Vac=300 mA (with 1 MOM or 4 MOT)	30	-20 ÷ +55	98x42x25 h	65



MOTXR, MOTXS



MOT



MORX

MYMOONBUS

Proximity reader for transponder cards and badge and Flor-m bimodal transmitters, with Nice BlueBUS connection technology.

Exclusive functions:

- 255 card/badge capacity;
- 2 programming modes: Easy or Professional;
- reading distance 4-8 cm;
- enables the entry of which type of cards/badge are enabled on the system: both, MOCARD only or MOCARDP only;
- possibility of programming the number of times a specific card/badge can be used;

- possibility of enabling an automation block unblock function;
- up to 4 MOTB and MOMB control devices connectable via BlueBUS, also in combined configurations;
- 2 modes (static and dynamic) to activate two different controls selected from 6 available (for example step-step, close, open) according to the control unit connected.

Simple installation: easy and rapid connection with just 2 wires, no polarity, to complete the BlueBUS systems.

Easy programming: with MOU palmtop or O-Box interface, extremely simple management of any type of programming of the BM1000 memory in the vicinity of the system, or remotely, directly from the installer's office. MOU and O-Box interface with the PC, enabling efficient archiving of all installations.

New transponder badge.

A practical badge that can be attached to a key-ring for availability at all times.

CODE	DESCRIPTION	PC/PACK
MOMB	PROXIMITY READER FOR TRANSPONDER CARDS, WITH NICE BLUEBUS TECHNOLOGY	1
MOCARD	TRANSPONDER CARD	10
MOCARDP	TRANSPONDER CARD PROGRAMMABLE VIA MOU PALM-TOP, WITH SEQUENTIAL CODE FOR MULTIPLE INSERTION	10
HSB1	TRANSPONDER BADGE REPROGRAMMABLE VIA MOU PALMTOP, WITH SEQUENTIAL ENCODING, FOR MULTIPLE ENTRIES	10

TECHNICAL SPECIFICATIONS

	Power supply	Absorption	Detection range (cm)	Protection rating (IP)	Dimensions (mm)
MOMB	via BlueBUS	2 BlueBUS unit	from 4 to 8	55	69x26x78 h



MOCARD, MOCARDP



HSB1

MYMOON

Proximity sensor for transponder cards and badge and for Flor-m bimodal transmitters, with 2-wire connection to decoder.

Exclusive functions:

- 255 cards/badge can be entered with a single code, expandable to 510;
- 2 channels;
- 2 programming modes: Easy or Professional;
- programmable output functions with instantaneous relay, bistable relay, timer, anti-theft feature;
- can be connected by cable to 1 proximity sensor;
- reading distance 5-10 cm;
- hard-wearing polycarbonate;
- LED enabling the user to see the device in the dark;



- it is possible to change the operations counter associated with a given card present in the memory;
- enables the user to change in the memory the parameter relative to the type of card/badge the decoder will be able to recognise.
- it is possible to change the code assigned to a given MOCARDP so that it can be programmed in line with specific requirements.

Easy programming: with MOU palmtop or O-Box interface, extremely simple management of any type of programming of the BM1000 memory in the vicinity of the system, or remotely, directly from the installer's office.

MOU and O-Box interface with the PC, enabling efficient archiving of all installations.

New transponder badge.

A practical badge that can be attached to a key-ring for availability at all times.

CODE	DESCRIPTION	PC/PACK
MOM	PROXIMITY READER FOR TRANSPONDER BADGES MOCARD AND MOCARDP FOR COMBINATION WITH DECODER MORX	1
MOCARD	TRANSPONDER CARD	10
MOCARDP	TRANSPONDER CARD PROGRAMMABLE VIA MOU PALM-TOP, WITH SEQUENTIAL CODE FOR MULTIPLE INSERTION	10
HSB1	TRANSPONDER BADGE REPROGRAMMABLE VIA MOU PALMTOP, WITH SEQUENTIAL ENCODING, FOR MULTIPLE ENTRIES	10
MORX	DECODER FOR 1 MOM OR 4 MOT CONNECTED IN PARALLEL WITH MEMORY BM1000 FOR 255 COMBINATIONS	1
BM1000	ADDITIONAL MEMORY CARD FOR OTHERS 255 COMBINATIONS	5

TECHNICAL SPECIFICATIONS

	Description	Anti-crushing distance (cm)	Protection rating (IP)	Dimensions (mm)	Weight (g)
MOM	reader for MOCARD, MOCARDP and HSB1	5 ÷ 10	55	69x26x78 h	65

	Power supply memory	Power supply	Max. absorbed power	Protection rating (IP)	Working temp. (°C Min/Max)	Dimensions (mm)	Weight (g)
MORX	2 BM10000 for max. 510 MOCARD/MOCARDP or combinations	10÷35 Vdc 12÷28 Vac	24 Vdc=70 mA 24 Vac=200 mA 12 Vdc=150 mA 12 Vac=300 mA (with 1 MOM or 4 MOT)	30	-20 ÷ +55	98x42x25 h	65



MOM



MOCARD, MOCARDP



HSB1



MORX

MOONKEY

Key switches with automatic clasp lock, European or standard cylinder.

Die-cast aluminium casing.

Ultra-thin: just 14 mm in the recessed version (39 mm in the surface-mounted version).

LED courtesy light (optional).

Electrical contacts and levers protected by a plastic casing.



CODE	DESCRIPTION	PC/PACK
MOSEU	SURFACE-MOUNTED KEY SWITCH, EUROPEAN CYLINDER	1
MOSIU	RECESSED KEY SWITCH, EUROPEAN CYLINDER	1
MOSE	SURFACE-MOUNTED KEY SWITCH	1
MOSI	RECESSED KEY SWITCH	1
MOSU	KEY SWITCH NO EUROPEAN CYLINDER, FOR OUTDOOR USE	1

ACCESSORIES

CODE	DESCRIPTION	PC/PACK
MOSA1	LED FOR MOSE, MOSI, MOSEU, MOSIU, MOSU	5
CHS	NEUTRAL KEY FOR MOSE, MOSI	1
CHEU	NEUTRAL KEY FOR MOSEU, MOSIU	1



MOON ACCESSORIES

ACCESSORIES

CODE	DESCRIPTION	PC/PACK
MOA1	BOX FOR RECESSED INSTALLATION MOSI, MOSIU. IT IS ALSO SUITABLE FOR MOF, MOFO, MOT, MOM, MOSE, MOSEU, MOSU	20
MOA2	FINISHING KITS FOR INSTALLING THE MOF, MOFO, MOSE, MOSEU, MOSU, MOT, MOM SERIES OVER PRE-EXISTENT FITTINGS. THIS DOES NOT APPLY TO MOTX	3
PCM	FOUNDATION PLATE FOR MOCF, MOCF2, MOCs POSTS	4
MOCA1	INSTALLATION ACCESSORY MOSE, MOSEU, MOSU MOT, MOM ON MOCF2 POST	1
MOCs	ALUMINIUM POST WITH PROTECTED HOUSING FOR 1 SWITCH, 1100 mm HIGH	2
MOCF2	ALUMINIUM POST WITH PROTECTED HOUSING FOR 2 PHOTOCELLS, 1000 mm HIGH	2
MOCF	ALUMINIUM POST WITH PROTECTED HOUSING FOR 1 PHOTOCELL, 500 mm HIGH	2



MOA1



MOA2



PCM



MOCA1



MOCs

MOCF2

MOCF

MOONLIGHT

MLL version, ideal for 230 V control units without provision, connected directly to the power line, this product monitors absorption and is activated automatically when the automation starts to operate.

Dual function: programmable in flashing light or courtesy light mode.

Flashing light: activated when an automation manoeuvre is in progress.

Courtesy light: activated when the automation starts to operate and, thanks to the internal timer, remains activated for a programmable time interval.

Flashing signal light.

Available with different power supply voltages: 230 Vac, 24 Vdc and 12 Vdc.

Practical: suitable for mounting in any position.

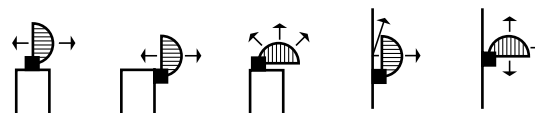
Incorporated 433.92 MHz aerial on all versions (except for MLL).

IP44 protection level.

Available in two colours: orange and neutral.



CODE	DESCRIPTION	PC/PACK
ML	ORANGE, 230 Vac, FOR PRESET CONTROL UNITS	1
MLT	NEUTRAL, 230 Vac, FOR PRESET CONTROL UNITS	1
ML24	ORANGE, 24 Vac/Vdc, FOR PRESET CONTROL UNITS	1
ML24T	NEUTRAL, 24 Vac/Vdc, FOR PRESET CONTROL UNITS	1
MLB	ORANGE, 12 Vac/Vdc, FOR PRESET CONTROL UNITS	1
MLBT	NEUTRAL, 12 Vac/Vdc, FOR PRESET CONTROL UNITS	1
MLL	NEUTRAL, 230 Vac, FOR NON PRESET CONTROL UNITS. SUPPLIED WITH ONE WHITE LAMP AND ONE ORANGE LAMP, WITHOUT AERIAL	1



ML, ML24, MLB



MLT, ML24T, MLBT, MLL

COMPATIBILITY TABLE

	A02	A500	A60	A700F	A924	MC824H	MC424L	WALKY	HYKE	ROAD	ROBUS	RUN	NAKED SLIDING 400	TUB	SPIN / SPINBUS	TEN	SOON	S/M/L BAR	SIGNO	WIL	
ML / MLT
ML24 / ML24T				
MLB / MLBT				

WALLYGHT

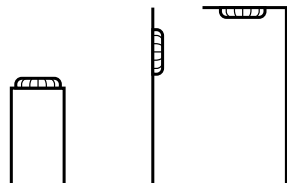
Optimal efficiency, extra long life:
the two 1 W-Leds guarantee a lifetime of 70.000 hours (continuous use).

Horizontal, wall or ceiling mounting: combined with the possibility of orienting the light beam and compact dimensions of the IP44 box, use of Wallyght is even more flexible.

Multi-function LED indicator.

The only version with 12/24 Vac/Vdc power supply and flashing light function, courtesy light function or dusk sensor function.

A new idea for improved safety:
when connected to compatible control units, Wallyght can act as a normal flashing light, or provide ambient lighting like a fixed courtesy light. When connected to a 12/24 Vac/Vdc output, Wallyght can remain permanently lit, and also be activated at dusk to then turn off at dawn thanks to the integrated dusk sensor.

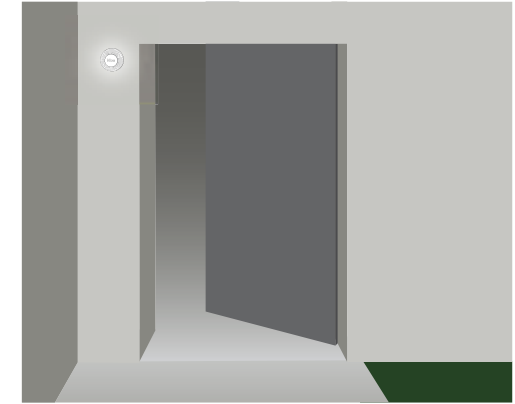


CODE	DESCRIPTION	PC/PACK
WLT	MULTI-FUNCTION LED INDICATOR	1

PATH INDICATORS ON ENTRANCE PATHWAYS



COURTESY LIGHT



COMPATIBILITY TABLE

	A974	MC824H	MC424L	WALKY	POP	HYKE	ROAD	ROBUS	RUN	NAKED SLIDING 400	SPIN / SPINBUS	SPIDER / SPIDO	TEN	SOON	S/M/L BAR	SIGNO	WIL
WLT

KIO

Kio, key-operated selector switch for low voltage contacts, with release mechanism for metal cord, ideal for the automation of sectional doors, folding doors and rolling gates.

User-friendly:

Kio is both a key-operated selector switch and a release device. Its design makes it very convenient and effortless to use, and easy to install anywhere thanks to its very narrow outline.

Long-lasting: Kio is made of cast aluminium, epoxy powder coated for greater durability.

Easy: LED allows you to locate the selector switch even in total darkness.

More safety: coded key.

Release device activated directly by opening the door or by the winding device.

The very first product to incorporate the key-operated control and release motor functions.



KIO



KA1

CODE	DESCRIPTION	PC/PACK
KIO	KEY-OPERATED SELECTOR SWITCH FOR LOW VOLTAGE CONTACTS, WITH RELEASE MECHANISM FOR METAL CORD	1
KA1	6 m CABLE RELEASE KIT FOR KIO	1

HEATING DEVICE

PW1, heating element: it maintains a suitable temperature for the automation system to operate correctly, **even under the most severe of weather conditions.**

This is a particular type of **resistance** that can reach temperatures close to 100°C under normal environmental conditions.

Effective: each element has a consumption of 20 W and is extremely efficient thanks to the silicone sheath that covers the resistance and increases the diffusion of heat.

Independent: the device is directly fed by a 230/120 Vac power supply through the TW1 thermostat, and because it doesn't burden the transformer of the product itself, the performance characteristics of the gear motor remain the same.



PW1

TW1, regulation thermostat for PW1:

when the detected temperature drops below the set threshold, the thermostat activates the heating element PW1 thereby slowly increasing the internal temperature of the product itself; the heating action is maintained until the detected surrounding temperature stabilizes at the set levels.

Easy to program: the intervention threshold can be regulated between 0°C and -20°C.

Safe: equipped with a button so that an operational test can be performed at any time. The status of the outputs is continuously verified by means of Leds.



TW1

CODE	DESCRIPTION	PC/PACK
PW1	HEATING ELEMENT FOR THE AUTOMATION SYSTEM	1
TW1	REGULATION THERMOSTAT	1

PROGRAMMING UNIT

BUPC, the programming unit resolves “on-the-spot” control and maintenance problems of **Bio, FloR and VeryVR** radio control systems.

With this system you can add, cancel, check, enable or disable codes; copy the memory; enter learning and password security locks and print events.

The software, Windows compatible, is simple and immediate so you can use the BUPC palm-top as a local terminal.

From the PC you can also:

- enter personal notes for each code;
- make back-up copies of the memory in the shape of files on which you can work at any time;
- enter additional codes;
- print the memory's contents;
- easy management of decoders and receivers with multiple memories;
- multiple insertion: enables the user to memorise large number of codes in just one step, simply by keying in the first and last codes.



CODE	DESCRIPTION	PC/PACK
BUPC	PROGRAMMING AND CODE CONTROL UNIT FOR THE FLOR, VERYVR, BIO SERIES	1

TECHNICAL SPECIFICATIONS

	Power supply	Communication	Consumption (mA)	Dimensions (mm)
BUPC	9 V internal battery inside 12 Vdc external source	interface RS232 standard, 9600Bps N,8 1	10	210x100x25 h