

# ERA TCW

NICE&SAFE

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

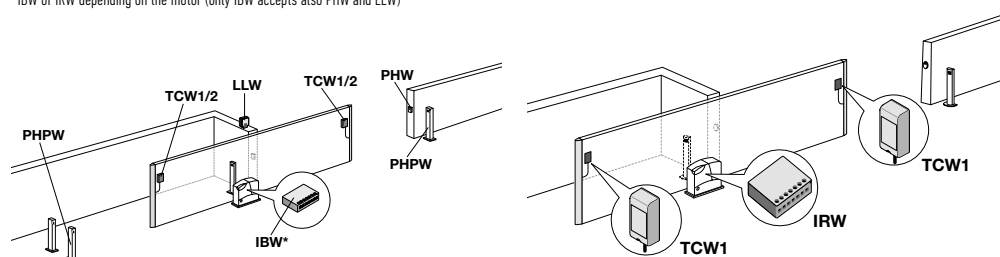
### TECHNICAL SPECIFICATIONS

CODE	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 leafs

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 SMART INSTRUMENT FOR MEASURING THE IMPACT FORCE COMPLIANT WITH EN12445, WITH BLUETOOTH/USB INTERFACE AND SOFTWARE INCLUDED, COMPLETE WITH CARRY CASE
NSFS	BLUEFORCE SMART 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



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:	
<b>CMA 1,5MT</b>	LENGTH 1.5 m	1
<b>CMA 1,7MT</b>	LENGTH 1.7 m	1
<b>CMA 2MT</b>	LENGTH 2 m	1
<b>CMA 2,5MT</b>	LENGTH 2.5 m	1
<b>CB</b>	PROTECTIVE RUBBER PAD FOR LOW ROLLED MECHANICAL EDGE AND ALUMINIUM PROFILES IN SECTIONS MEASURING 2 m; DIMENSIONS IN mm 23x44 h	40
<b>CMBK4</b>	KIT FOR INSTALLING A LOW MECHANICAL EDGE, WITH ALUMINIUM PROFILES MEASURING 4 m (TO USE TOGETHER WITH CB)	1
<b>CMBK6</b>	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
<b>TCBS60</b>	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
<b>LP1</b>	SINGLE-CHANNEL METAL MASS DETECTOR 24 V POWER SUPPLY	1
<b>LP2</b>	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.



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

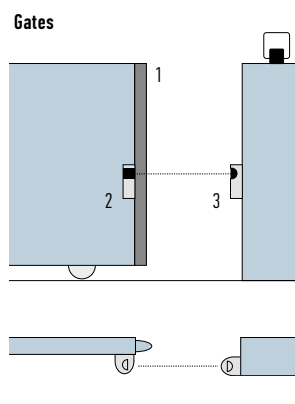
### TECHNICAL SPECIFICATIONS

	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 PPH2 AND PPH1 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
PPH2	ALUMINIUM POST FOR 2 PHOTOCELLS, 1000 mm HIGH	2
PPH1	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.