AUTOMATIC DOORS CATALOGUE

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AUTOMATIC DOORS

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10 MAIN CHARACTERISTICS

18 AUTOMATIC SWING DOORS
20 STANDARD SWING DOOR INSTALLATIONS
21 TRANSMISSION ARMS
22 FLUO-SW
24 FLUO-SW LIGHT - SPRING - HEAVY

28 AUTOMATIC SLIDING DOORS
30 SLIDING DOORS: STANDARD INSTALLATIONS
31 TELESCOPIC DOORS: STANDARD INSTALLATIONS
32 BEAM DIMENSIONS (MM)
34 BEAM SECTION SCALE 1: 2 (MM)
36 FLUO-SL
38 FLUO-SL BASIC
40 FLUO-SL STANDARD
42 FLUO-SL HEAVY
44 FLUO-SLM MAGNUM
46 FLUO-SLT TELESCOPIC

48 ACCESSORIES FOR AUTOMATIC DOORS
50 ACCESSORIES - SLIDING OPERATORS COMPLETION
51 ACCESSORIES - PROFILES FOR SLIDING OPERATORS IN KIT
52 ACCESSORIES - CONTROL AND SAFETY
54 ACCESSORIES - TEMPERED GLASS LEAVES THICKNESS 10 MM
55 ACCESSORIES - FRAMED LEAVES
56 ACCESSORIES - ANTI-PANIC PUSH-TO-OPEN SYSTEM FOR FRAMED LEAVES

58 FLUO-SL BASIC
58 FRAMED SLIDING LEAF
58 HEIGHT CALCULATION

59 FLUO-SL STANDARD - HEAVY - MAGNUM
59 FRAMED SLIDING LEAF
59 HEIGHT CALCULATION

60 FLUO-SL TELESCOPIC
60 FRAMED SLIDING LEAF
60 HEIGHT CALCULATION

61 FLUO-SL BASIC
61 GLASS SLIDING LEAF TH. 10 MM
61 HEIGHT CALCULATION

62 FLUO-SL STANDARD - HEAVY - MAGNUM
62 GLASS SLIDING LEAF TH. 10 MM
62 HEIGHT CALCULATION

63 FLUO-SL TELESCOPIC
63 GLASS SLIDING LEAF TH. 10 MM
63 HEIGHT CALCULATION

64 PROFILES FOR LEAVES: SECTIONS AND DIMENSIONS SCALE 1: 1

66 ANALYTICAL INDEX

68 GENERAL CONDITIONS OF SALE

CAME

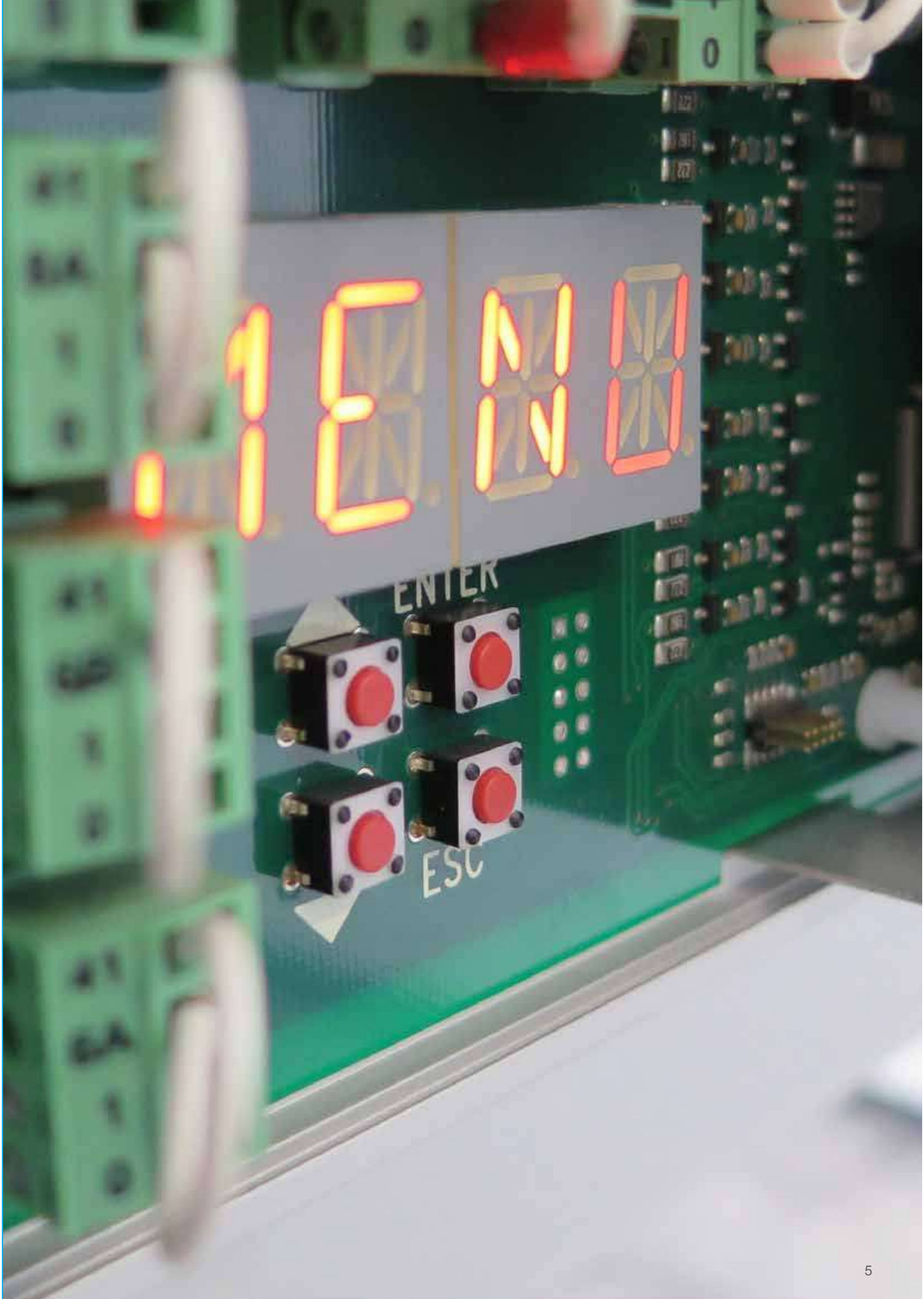
BRUSHLESS MOTORS FOR MAXIMUM EFFICIENCY

CAME solutions for pedestrian automatic doors are at the forefront in terms of efficiency and reliability.

All versions, both swing and sliding, are equipped with an innovative brushless DC motor.
The absence of brushes inside the system guarantees greater performance and lower maintenance costs.

CAME motors work at low speed, around 600 rpm: in this way the mechanical wear is considerably reduced, extending the product life more than 10 times compared to traditional solutions on the market.
Lower maintenance costs and reduced assistance become the key to a successful relationship between the installer and customer.

The Brushless motor of the FLUO range is a flexible solution, which can be installed in any type of environment, both residential and commercial: it adapts perfectly to professional settings, hospitals and medical clinics, and can be used for emergency exits .
FLUO operators are designed and manufactured in compliance with the safety requirements required by European regulations. Efficiency and reliability are certified by the TUV mark.


ENTER
ESC

DIRECT DRIVE SYSTEM FOR MAXIMUM SILENCE

The Brushless motor, equipped with a direct drive system on the belt without reducer, combines high performance with low consumption.

Thanks to this technological innovation, the operators for sliding doors can work at reduced speeds, significantly reducing energy consumption.

Furthermore, the noise is almost completely eliminated thanks to the gaskets that absorb the vibrations, guaranteeing an exceptional silent operation.

ENERGY SAVINGS SOLUTIONS
The new FLUO range is equipped with the latest generation control board, with extended range power supply (100 - 240 V) and Switch mode. The 32-bit microcontroller can be easily configured thanks to an alphanumeric display that makes the settings easy and quick.

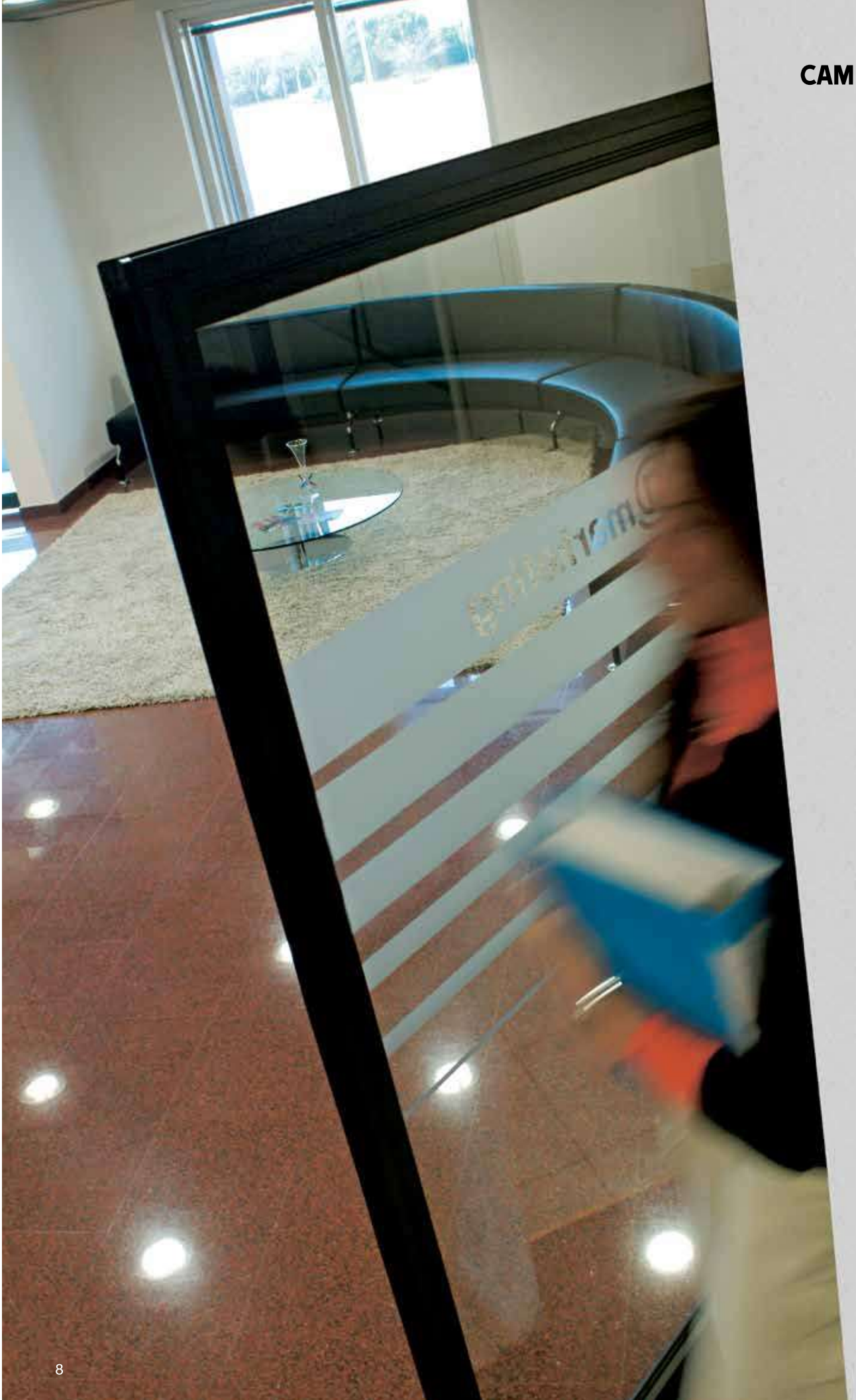
To further simplify the installation operations, the board is supplied with a standard pre-configuration: the professional, for basic applications, can simply use the default settings without having to load new parameters.

The motor is designed to work in any condition: thanks to the Switch mode it detects the voltage and automatically switches from 100 to 240 V.
The low rotation speed reduces energy consumption by 54%.

SIMPLE INSTALLATION

CAME focuses on quick and easy installation.
The support beam, thanks to the exclusive fixing system, can be installed by only one person, minimizing the time and costs for the operation.
Even the internal components have been designed to limit the number of necessary tools, so as to make the whole job easier; in addition, the snap-on fixing mechanism facilitates the motor replacement and maintenance.
Even the sensor support follows the same innovation, and is directly connected to the bracket instead of to the body.
Thanks to the fixing by magnets it is not necessary to disconnect the wires or remove the cover, so all operations become extremely quick and simple.

Working on operator is even more faster and safer.



SELECTOR CAPACITIVE TOUCH SCREEN

The function selector, with a modern and discreet design, is equipped with a capacitive touch screen and can be configured in different modes.
Intuitive icons help the user to choose among 4 different authorization levels:

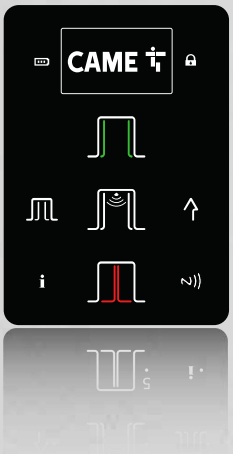
- Opening always active
- Opening by touching the selector
- Contactless opening via badge
- Opening via number code

The function selector is the main accessory for the operator control. Available in 2 different versions, it is an advanced device with a simple and intuitive interface.
The CAME selector supports all the latest technologies for access control, including the MiFare transponder module.

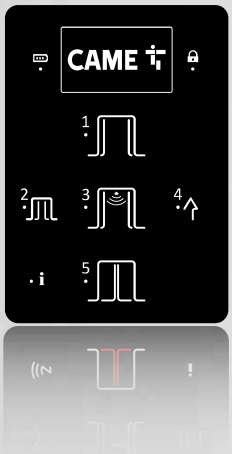
The selector supports several functions:
- Door locked with key
- Door locked with key unlocking
- Bidirectional automatic opening
- Unidirectional automatic opening
- Partially automatic opening
- Priority closing function
- Operator reset function
- Touch function to reactivate the selector from the stand-by mode
- Activation of the selector via transponder badge

The selector also shows indications relating to:
- Function selector not active.
- Operator that works with an emergency battery system
- Ordinary maintenance.
- General mechanical malfunction
- Error in the safety device test
- Failure of the emergency system
- Warning of too high motor temperature

Functions selector with RFID.



BASIC functions selector.



CAME

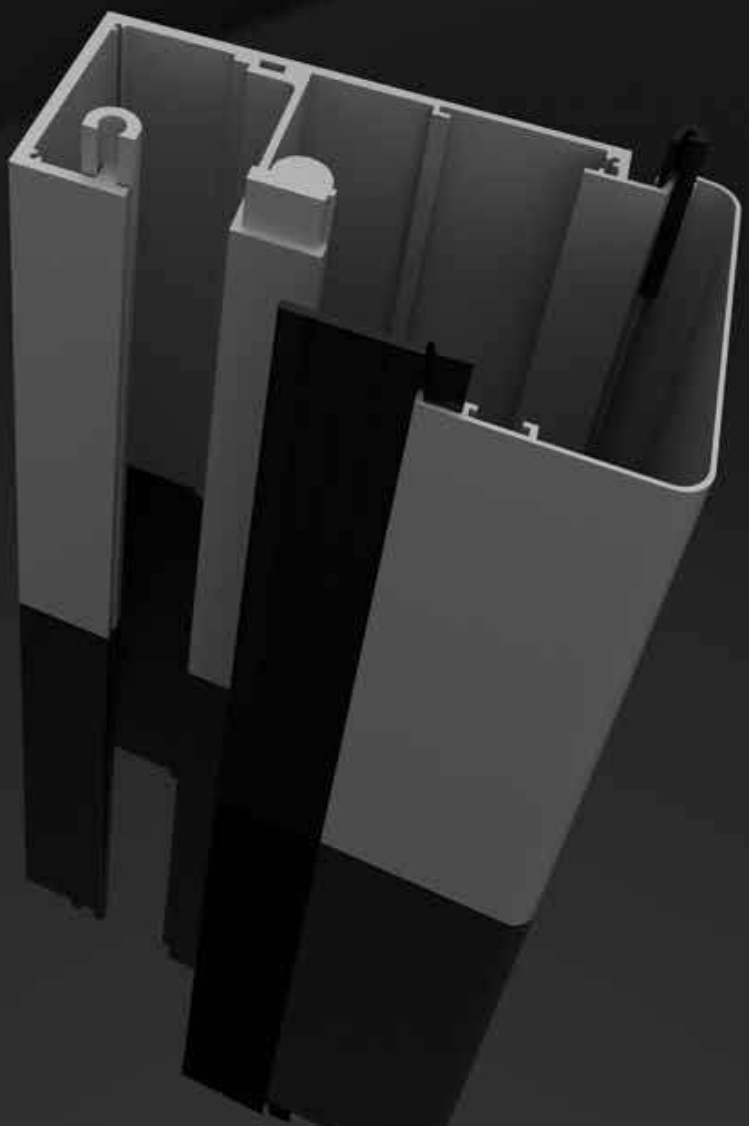
DUAL RAIL: THE INNOVATIVE SYSTEM FOR TELESCOPIC DOORS

Installation and maintenance of telescopic doors is always very complex due to the difficulty of accessing the secondary leaf.

The DUAL RAIL system allows easy access to the secondary leaf because it leaves the sliding guide of the primary leaf suspended, connecting it to the profile of the box using modular brackets with front coupling.

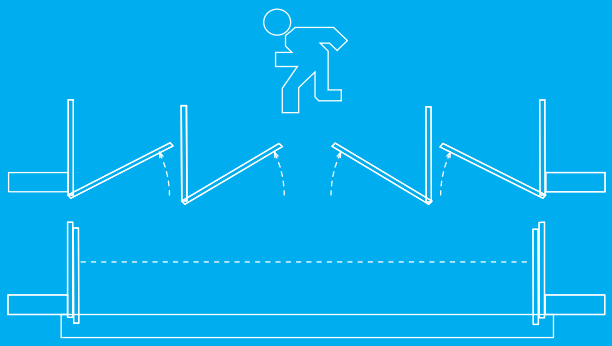
The return system is characterized by a dual pulley transmission that allows to adjust the two doors separately, moving them by hand in a much simpler way than traditional telescopic solutions.

Once the installation or maintenance operations are completed, a quick locking system makes the two pulleys work again.



FLUO-SL EMERGENCY

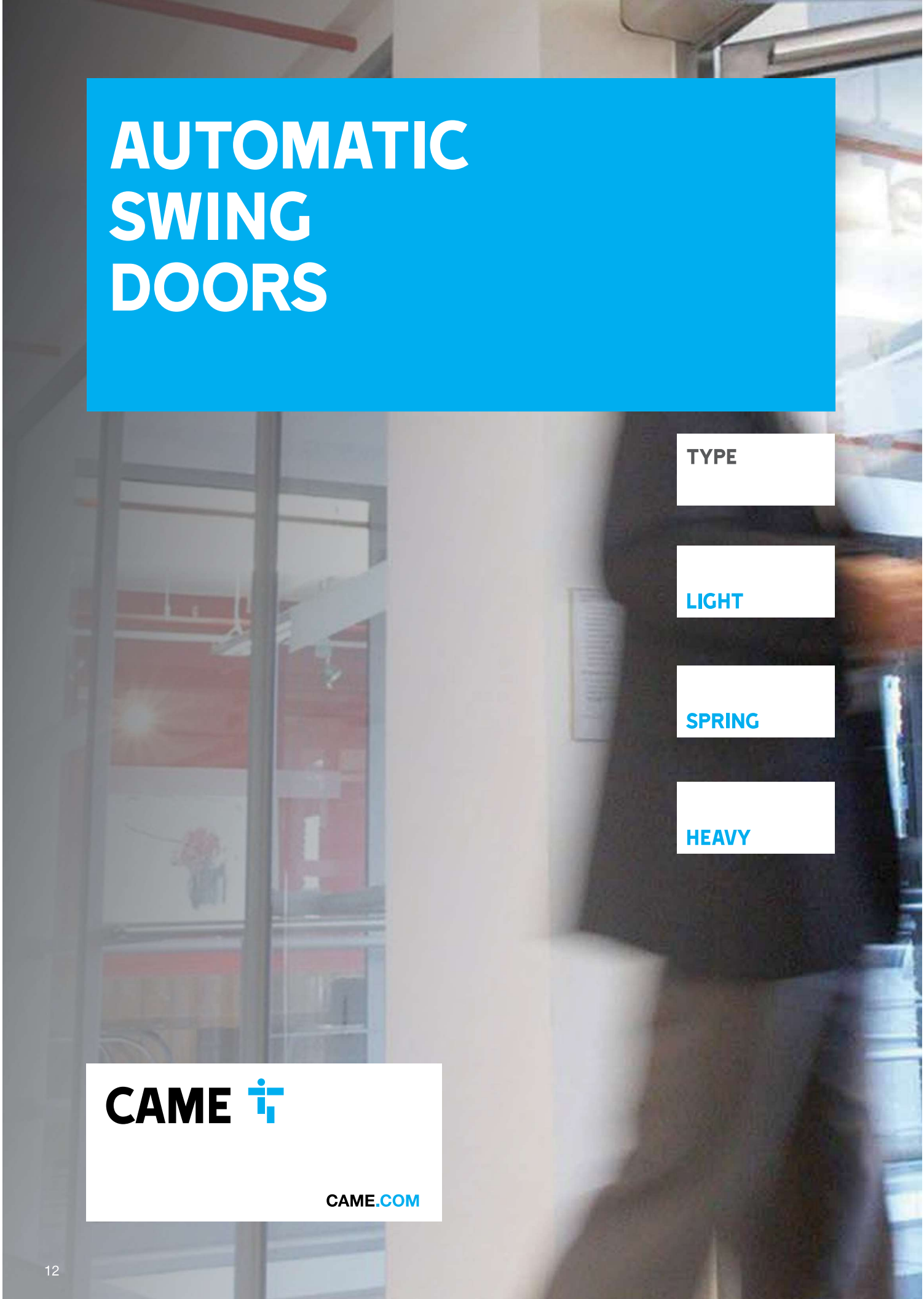
The international safety regulations require that emergency exit doors can be opened even if a power failure occurs. Usually, to meet this need, the operator requires the installation of bulky and inconvenient additional modules to complete the system.



CAME solutions use a Brushless motor with double winding and direct drive on the belt, without gearbox. The sophisticated control system constantly monitors the position and speed of the leafs to optimize torque, improving efficiency.
The two windings are completely independent of each other and guarantee the door opening even in the event of an electrical failure or a blackout.

The electronic control unit has an additional emergency board installed directly on the main board and connected through a serial communication CAN bus.
Even if the two boards are installed together, the emergency board is completely independent from the main board because it is provided with its own microcontroller.

The European standard EN 16005, specifies the requirements for motor-powered pedestrian doors installed also in escape routes. The great advantage of FLUO EMERGENCY consists in being able to install, in emergency routes and exits, operators approved for this purpose, with standard sliding leaves, to replace the traditional operators with sliding push-to-open leafs, in the direction of emergency exit.



AUTOMATIC SWING DOORS

TYPE

LIGHT

SPRING

HEAVY

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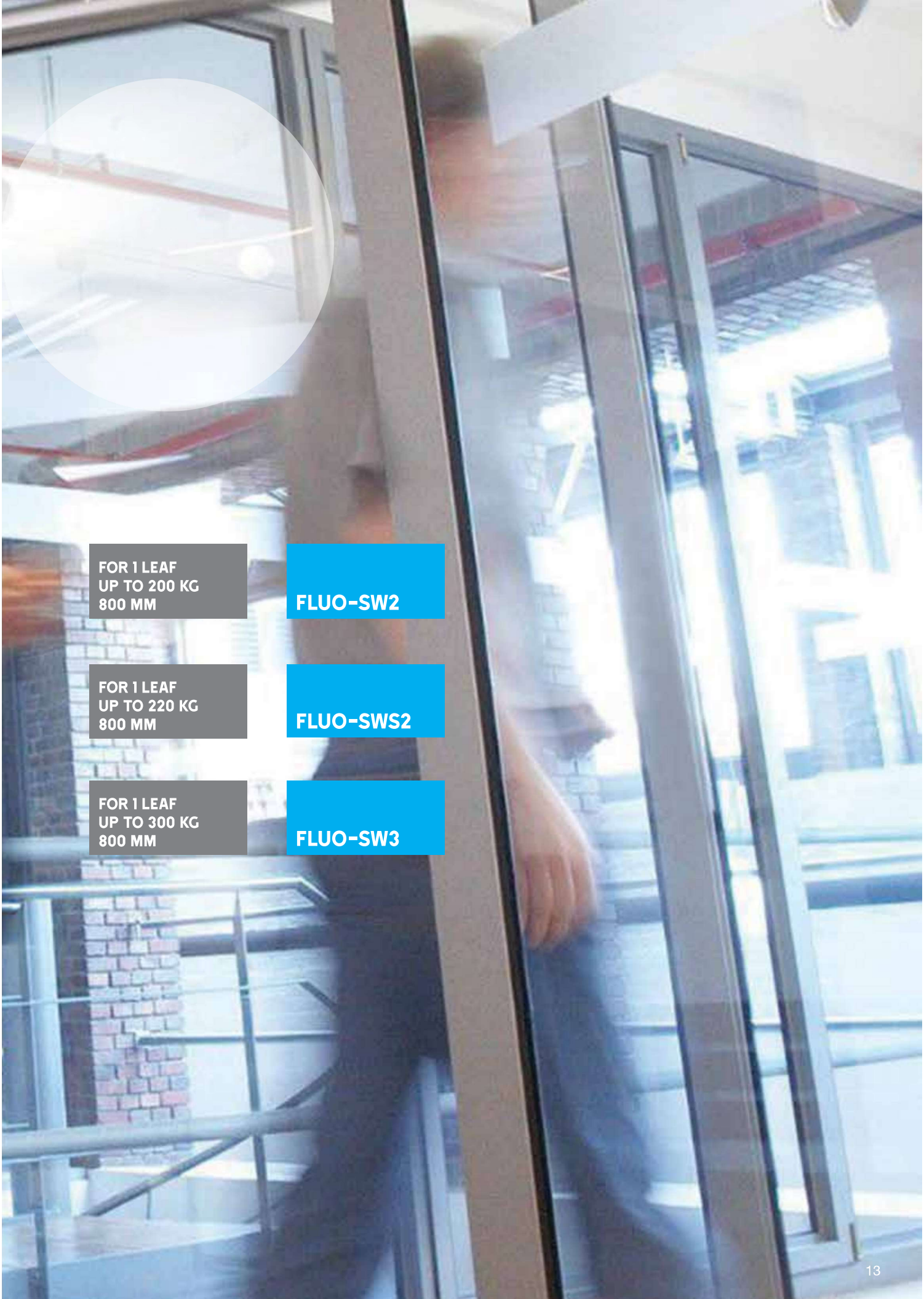
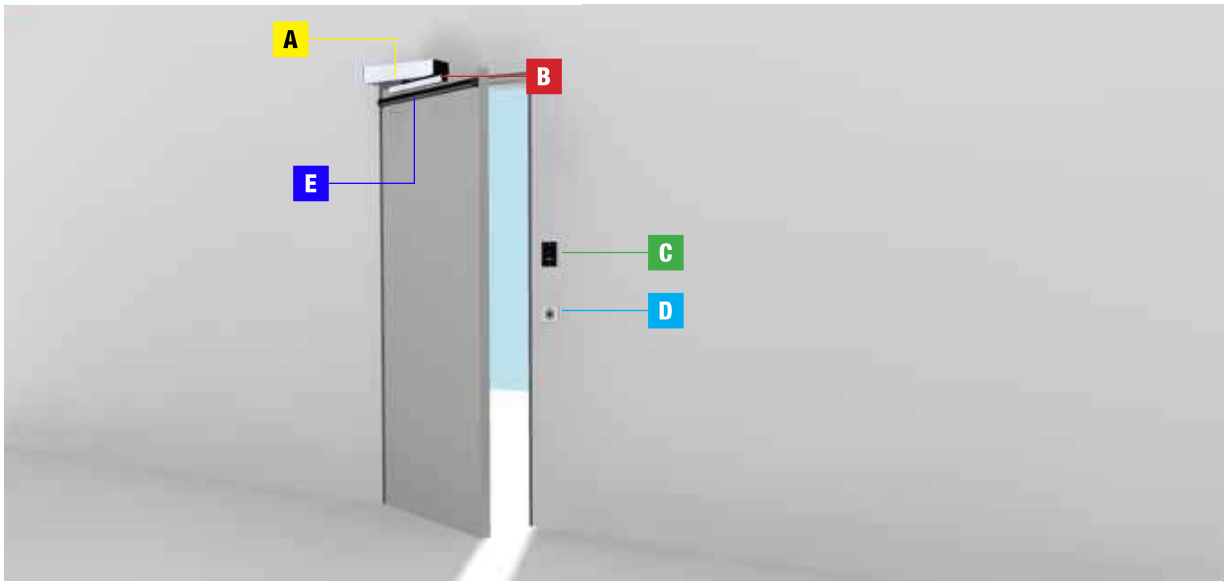


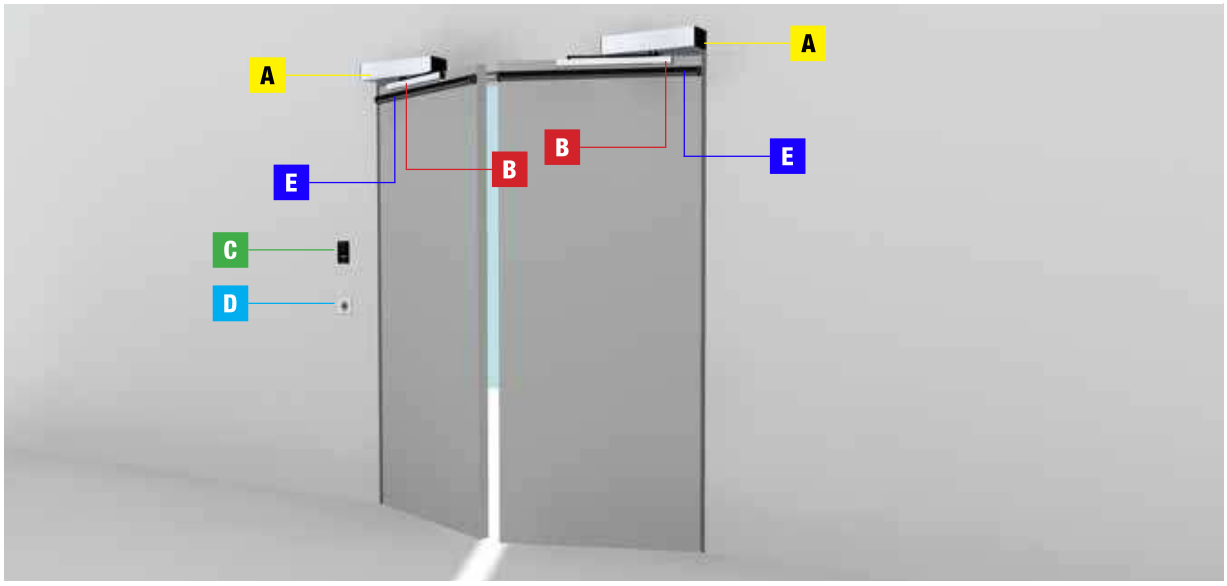
FOR 1 LEAF UP TO 200 KG 800 MM	FLUO-SW2
FOR 1 LEAF UP TO 220 KG 800 MM	FLUO-SWS2
FOR 1 LEAF UP TO 300 KG 800 MM	FLUO-SW3

STANDARD SWING DOOR INSTALLATIONS

1 SWING LEAF



2 SWING LEAVES



A

- Operator (control board-fitted gearmotor)
- Power outage emergency operation board.
- Control panel

B

- Transmission lever

C

- Functions selector

D

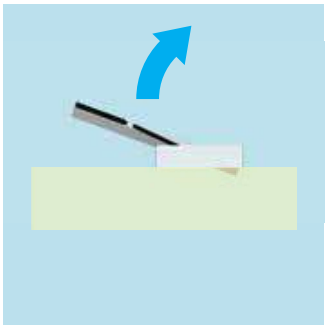
- Swipe sensor

E

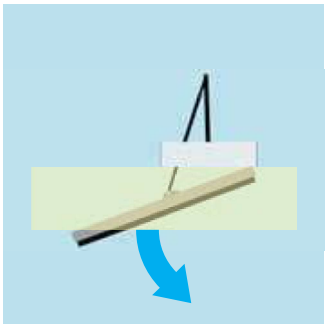
- Safety/control sensor

TRANSMISSION ARMS

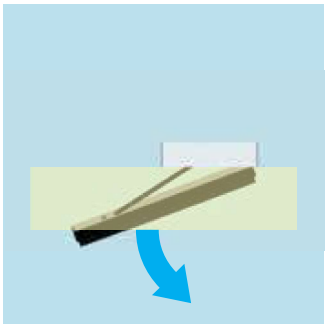
818XA-0040
STRAIGHT PULL ARM
To be used when the door must open from the same side where the operator is installed.
Equipped with mechanical limit switch.



818XA-0041
HINGED PUSH ARM
To be used when the door must open on the opposite side from where the operator is installed.



818XA-0059
STRAIGHT PUSH ARM
To be used when the door must open on the opposite side from where the operator is installed.
Equipped with mechanical limit switch.



ALSO A SINGLE PROFILE CUT TO MEASURE

The 2-leaf hinged configuration of FLUO-SW can also be made using a single containment profile, cut to measure on customer request.

CABLES FOR STANDARD INSTALLATION

CABLE LENGTH (m)	< 10	from 10 to 20	from 20 to 30
230 V AC Power supply	3G x 1.5 mm²	3G x 1.5 mm²	3G x 2.5 mm²
Functions selector 818XA-0043 - 818XA-0050	UTP CAT 4 AWG24 - 4 x 0.5 mm² Bipolar twisted	UTP CAT 4 AWG24 - 4 x 0.5 mm² Bipolar twisted	UTP CAT 4 AWG24 - 4 x 0.5 mm² Bipolar twisted
818XC-0039 Mechanical selector	3 x 0.5 mm²	-	-
12 - 24 V AC - DC touch sensors	4 x 1 mm²	4 x 1 mm²	4 x 1 mm²
Command and control devices	*n° x 0.5 mm²	*n° x 0.5 mm²	*n° x 0.5 mm²

FLUO-SW

Extremely silent swing door thanks to the brushless DC motor.

Fully reversible gearmotor.
Emergency battery.

EN 16005
This door has been designed and certified in accordance with the requirements of the European Standards.

EASY TO INSTALL SIMPLE TO USE

EASY TO INSTALL

There is no need for specific structures as the operator can be installed directly on the upper part of the door, easily connecting the arm
The accessories can be connected quickly, directly to the main board through direct connection.

A COMPLETE SOLUTION

- Low consumption and great reliability, thanks to the Brushless motor.
- Very silent during movement.
- Perfectly reversible for manual opening.
- Different movement arms, available for doors to push or pull.
- Available in spring closing version.

INNOVATIVE ELECTRONIC CONTROL UNIT

- Pre-configured board for standard installations, without the need to set additional parameters.
- Fully customizable configurations for specific installations.
- Parameters setting and monitoring through alphanumeric display.
- Board with dedicated connectors for each individual accessory.
- Obstacle detection.

FLUO-SW LIGHT - SPRING - HEAVY

FLUO-SW2	LIGHT	UP TO 200 KG
FLUO-SWS2	SPRING	UP TO 220 KG
FLUO-SW3	HEAVY	UP TO 300 KG

Code	Description
FLUO-SW2 - Operators for 1 swing leaf doors with motor-powered opening and closing	
818SW-0010	Operator for 1 swing leaf with motor-powered opening and closing. Standard profile length L = 443 mm. Leaf maximum weight up to 200 Kg.

NOTES:
818SW-0010 FOR INDOOR APPLICATIONS DOES NOT SUBJECT TO WIND GUSTS

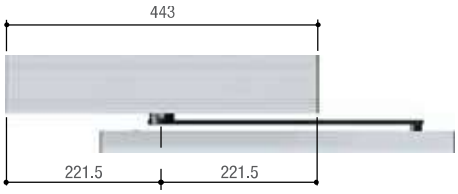
FLUO-SW3 - Operators for 1 swing leaf doors with motor-powered opening and closing	
818SW-0020	Single operator for 1 swing leaf with motor-driven opening and closing. Standard profile length L = 463 mm. Leaf maximum weight up to 300 Kg.
818SW-0090	Single operator for 1 swing leaf with motor-driven opening and closing. Maximum profile length cut to measure L = 1000 mm. Leaf maximum weight up to 300 Kg
818SW-0100	Single operator for 1 swing leaf with motor-driven opening and closing. Maximum profile length cut to measure L = 2000 mm. Leaf maximum weight up to 300 Kg
818SW-0110	Single operator for 1 swing leaf with motor-driven opening and closing. Maximum profile length cut to measure L = 3000 mm. Leaf maximum weight up to 300 Kg
FLUO-SW3 - Operators for 2 swing leaves doors with motor-powered opening and closing	
818SW-0120	Single operator for 2 swing leaves with motor-driven opening and closing. Profile length cut to measure L Max. = 2000 mm. Leaf maximum weight up to 300 + 300 Kg.
818SW-0130	Single operator for 2 swing leaves with motor-driven opening and closing. Profile length cut to measure L Max. = 3000 mm. Leaf maximum weight up to 300 + 300 Kg.
FLUO-SWS2 - Operators for 1 leaf doors with motor-driven opening and spring closing	
818SW-0030	Single operator for 1 leaf with spring closing. Standard profile length L = 500 mm. Max leaf weight up to 220 Kg
818SW-0040	Single operator for 1 leaf with spring closing. Maximum profile length cut to measure L = 1000 mm. Leaf maximum weight up to 220 Kg
818SW-0050	Single operator for 1 leaf with spring closing. Maximum profile length cut to measure L = 2000 mm. Leaf maximum weight up to 220 Kg
818SW-0060	Single operator for 1 leaf with spring closing. Maximum profile length cut to measure L = 3000 mm. Leaf maximum weight up to 220 Kg
FLUO-SWS2 - Operators for doors with 2 swing leaves with motor-driven opening and spring closing	
818SW-0070	Double operator for 2 swing leaves with spring closing. Maximum profile length cut to measure L = 2000 mm. Leaf maximum weight up to 220 + 220 Kg
818SW-0080	Double operator for 2 swing leaves with spring closing. Maximum profile length cut to measure L = 3000 mm.< Leaf maximum weight up to 220 + 220 Kg

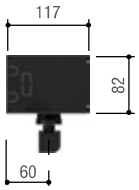
36 V DC POWERED DEVICE OPERATOR WITH ENCODER

Code	Description	
Accessories		
818XC-0038	Control board for operation during power outages and for recharging the batteries.	
818XA-0051	Board for auxiliary contacts.	
Accessories		
818XA-0040	Straight PULL arm.	
818XA-0041	Hinged PUSH arm.	
818XA-0059	Straight PUSH arm.	
818XC-0039	Three-position mechanical function selector.	
818XA-0045	17 mm spacer for FLUO-SW.	
818XA-0046	34 mm spacer for FLUO-SW.	
818XA-0047	51 mm spacer for FLUO-SW.	
818XA-0048	68 mm spacer for FLUO-SW.	
818XA-0049	85 mm spacer for FLUO-SW.	
Accessories for: 818XA-0040		
818XC-0040	11 mm spacer for 818XA-0040.	

DIMENSIONS (mm)

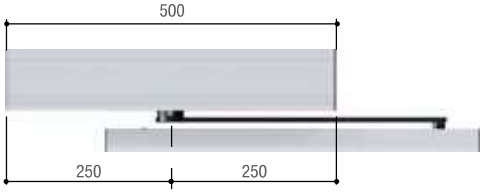
FLUO-SW2





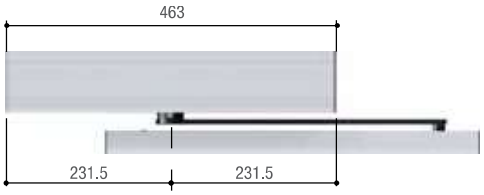
818SW-0010

FLUO-SWS2



818SW-0030
818SW-0040
818SW-0050
818SW-0060
818SW-0070
818SW-0080

FLUO-SW3



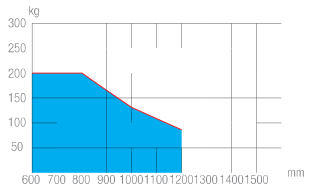
818SW-0020
818SW-0090
818SW-0100
818SW-0110
818SW-0120
818SW-0130

OPERATING LIMITS AND TECHNICAL CHARACTERISTICS

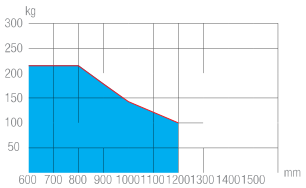
	LIGHT	SPRING	HEAVY
	FLUO-SW2	FLUO-SWS2	FLUO-SW3
Min./max. length of leaf (mm)	800 / 1200	800 / 1200	800 / 1500
Leaf max./min. weight (Kg)	200 / 80	220 / 100	300 / 80
IP protection rating	20	20	20
Power supply (V - 50/60 Hz)	100 - 240 AC	100 - 240 AC	100 - 240 AC
Motor power supply (V)	36 DC	36 DC	36 DC
Nominal power (W)	40	70	70
Stand by nominal power (W)	8	8	8
Maneuvering time 90° (s)	2 to 6	2 to 6	2 to 6
Intermittence/Duty-cycle (%)	CONTINUOUS SERVICES	CONTINUOUS SERVICES	CONTINUOUS SERVICES
Nominal load (N)	20	23	40
Operating temperature (°C)	-15 to +50	-15 to +50	-15 to +50

● 36 V DC

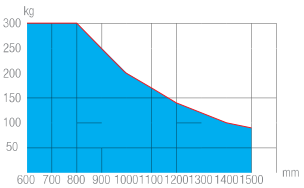
FLUO-SW2 - LIGHT



FLUO-SWS2 - SPRING

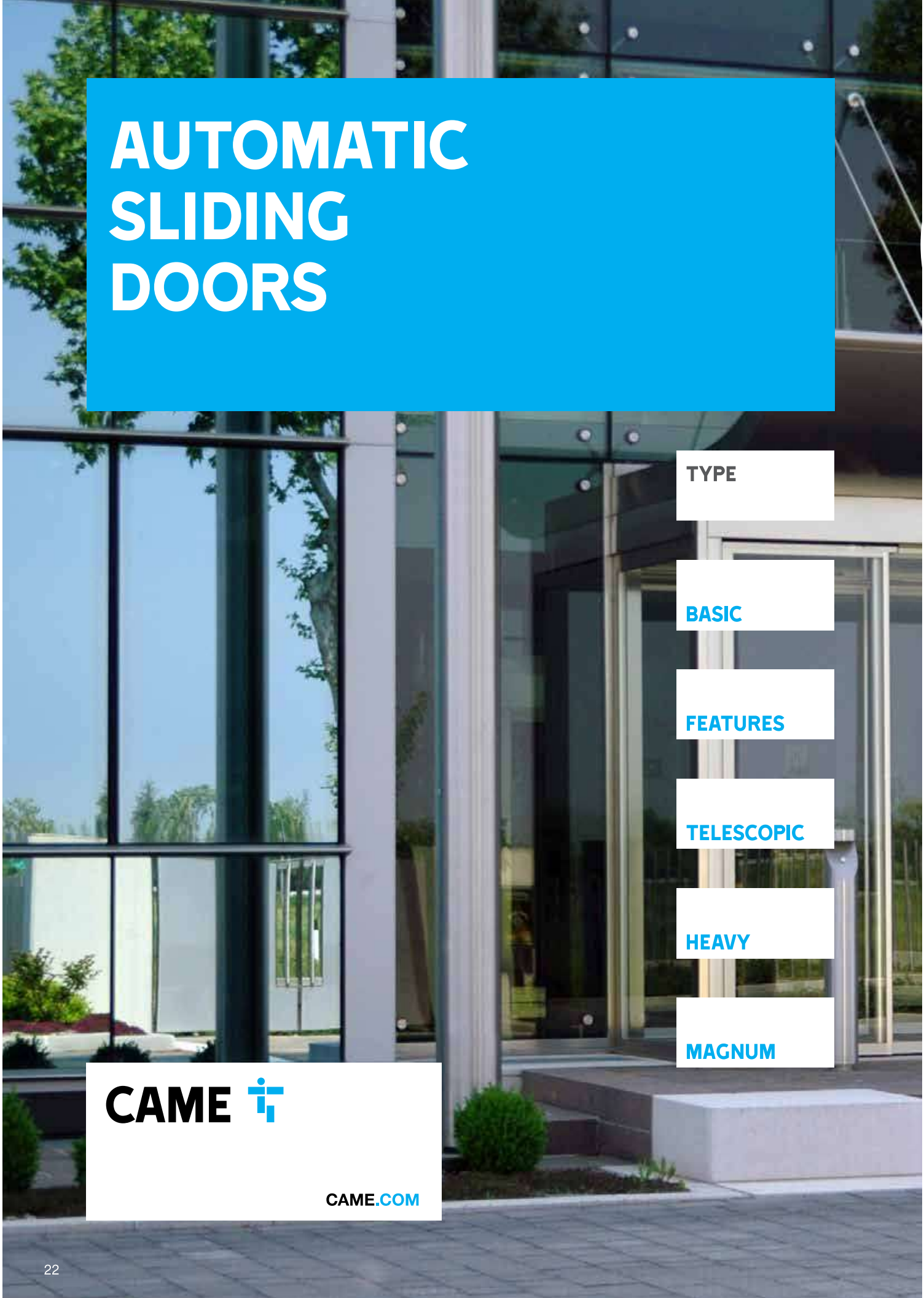


FLUO-SW3 - HEAVY



SUITABLE FOR ALL TYPES OF DOORS

FLUO-SW does not require a particular type of door to be installed, it is sufficient that the door is of good manufacture, made of wood, aluminium or plastic material. For the operator wall mounting it is essential to use suitable fastening systems based on the constructive nature of the support.



AUTOMATIC SLIDING DOORS

TYPE

BASIC

FEATURES

TELESCOPIC

HEAVY

MAGNUM

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