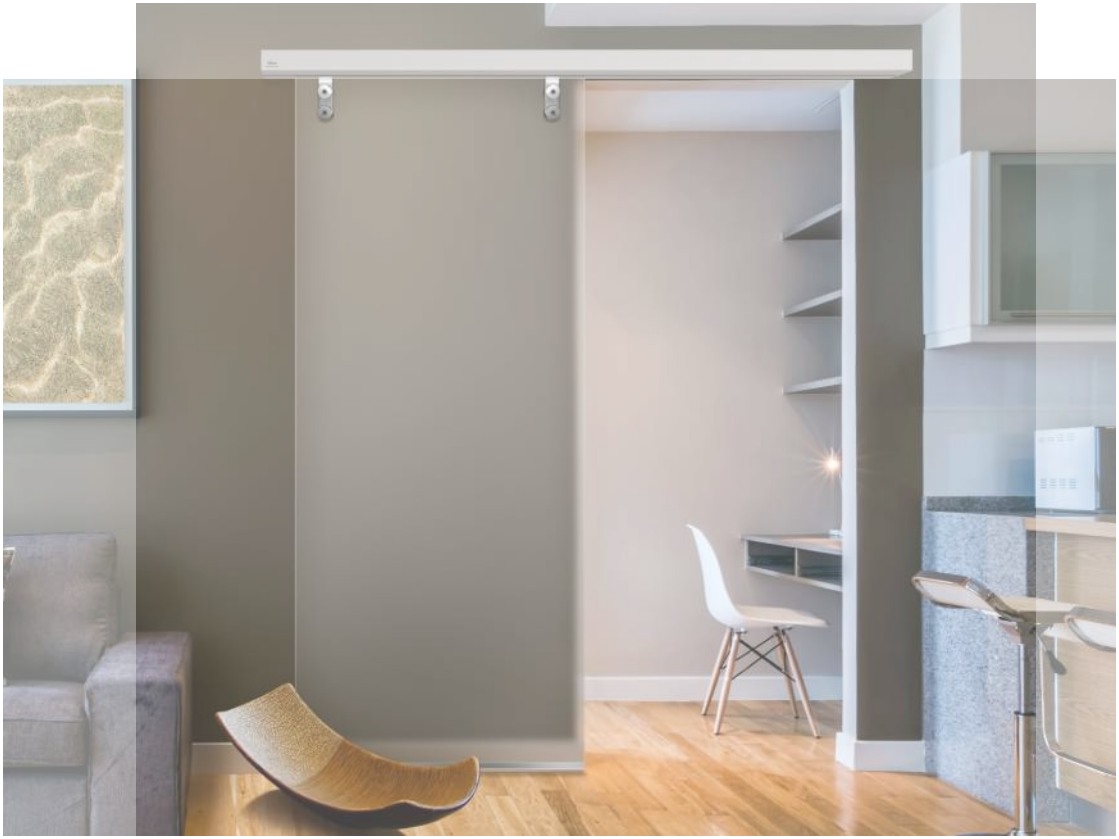
Last version of this manual

IP2319EN • 2025/06/04



Technical Manual

Ditec CIVIK

Internal sliding door automation

(Translation of original instructions)

GENERAL SAFETY PRECAUTIONS FOR TECHNICAL PERSONNEL

WARNING! Important safety instructions • Please follow these instructions carefully • Failure to observe the information given in this manual may lead to severe personal injury or damage to the equipment • Keep these instructions for future reference.

WARNING! During maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts • The protection cover of the operator must be removed by qualified personnel only • This manual and those for any accessories can be downloaded from www.ditecautomations.com

This installation manual is intended for qualified personnel only • Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with Good Working Methods and in compliance with the current regulations • Read the instructions carefully before installing the product. Wrong installation could be dangerous • Before installing the product, make sure it is in perfect condition • The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger • Do not install the product in explosive areas and atmospheres: the presence of inflammable gas or fumes represents a serious safety hazard • Make sure that the temperature range indicated in the technical specifications is compatible with the installation site • Before installing the motorization device, make sure that the existing structure, as well as all the support and guide elements, are up to standards in terms of strength and stability. Verify the stability and smooth mobility of the guided part, and make sure that no risks of fall or derailment subsist • Make all the necessary structural modifications to create safety clearance and to guard or isolate all the crushing, shearing, trapping and general hazardous areas • The motorization device manufacturer is not responsible for failure to observe Good Working Methods when building the frames to be motorized, or for any deformation during use • The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account the applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorized door or gate • The safety devices must protect against crushing, cutting, trapping and general danger areas of the motorized door or gate. Display the signs required by law to identify hazardous areas • Each installation must bear a visible indication of the data identifying the motorized door or gate • Before connecting the power supply, make sure the plate data correspond to those of the mains power supply • For devices that are permanently connected to the mains supply, an omni polar disconnection switch with a contact opening distance of at least 3 mm must be fitted on the mains supply. Check that there is an adequate residual current circuit breaker and a suitable overcurrent cutout upstream of the electrical installation in accordance with Good Working Methods and with the laws in force • When requested, connect the motorized door or gate to an effective earthing system that complies with the current safety standards • The electronic parts must be handled using earthed antistatic conductive arms • The manufacturer of the motorization declines all responsibility if component parts not compatible with safe and correct operation are fitted • Only use original spare parts for repairing or replacing products • Before commissioning the installation to the end user, make sure that the automation is adequately adjusted in order to satisfy all the functional and safety requirements, and that all the command, safety, and manual release devices operate correctly • The installer must supply all information concerning the automatic, manual and emergency operation of the motorized door or gate, and must provide the user with the operation and safety instructions.

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This symbol indicates notes regarding safety, to which special attention must be paid.

This symbol indicates useful information for the correct functioning of the product.

EC Declaration of incorporation

We:
ASSA ABLOY Entrance Systems AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

Declare under our sole responsibility that the type of equipment with name:

Ditec CIVIK Sliding door operator

Comply with the following directives and their amendments:

2006/42/CE	Machinery Directive (MD) for the following essential health and safety requirements: 1.1.2, 1.1.3, 1.2.1, 1.2.2, 1.2.3, 1.2.4.2, 1.2.6, 1.3.9, 1.4.3, 1.7.2, 1.7.3, 1.7.4, 1.7.4.1, 1.7.4.2.
2014/30/UE	Electromagnetic Compatibility Directive (EMCD)
2011/65/UE	Restriction of hazardous substances (RoHS 2)
2015/863/UE	Restriction of hazardous substances (RoHS 2 Amendment)

Harmonised European standards which have been applied:

EN 60335 -1:2012+A11:2014	EN ISO 13849 -1:2015	EN 61000 -6-1:2007
EN 60335-2-103:2015	EN 16005:2012/AC:2015	EN 61000 -6-3:2007+A1:2011
EN 61000 -3-3:2013	EN 61000 -3-2:2014	

The production process aims to guarantee that the equipment complies with the technical documentation.

The equipment must not be put into service until the final door system installed has been declared compliant with the Machinery Directive 2006/42/EC by the installer.

Responsible for technical file:
Matteo Fino
Ditec S.p.A.
Largo U. Boccioni, 1
21040 Origgio (VA)
Italy

Signed for and on behalf of ASSA ABLOY Entrance Systems AB by:

Place	Date	Signature	Position
Origgio	2025/06/04	Matteo Fino	CEO Ditec

Machinery Directive

Pursuant to the Machinery Directive (2006/42/EC), the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical file that must contain the documents indicated in Annex V of the Machinery Directive (The technical file must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door);
- draw up the EC Declaration of Conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the CE marking on the motorised door or gate, in accordance with point 1.7.3 of Annex I of the Machinery Directive.
- Ensure that the motorised gate complies with the safety regulations, installing the necessary safety devices.

1. Technical data

Power supply	230 V~ (-10%/ +10%), 50/60 Hz	
Absorption	0,2 A	
Accessories power supply	24 V⎓, 0,36 A	
Thrust	30N	
Opening speed*	1 wing - 0,4m/s	2 wings - 0,8m/s
Closing speed	1 wing - 0,2m/s	2 wings - 0,4m/s
Max door weight	1 wing - 60 kg	2 wings - 80 kg (40+40 Kg)
Intermittence	S2 = 20min ; S3 = 30%	
Temperature	-20 °C	+55 °C
Degree of protection	IP20 (FOR INTERNAL USE ONLY)	

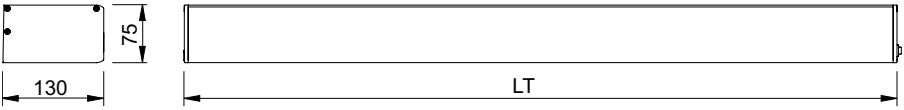
* The maximum door wing speed varies according to the door wing weight if the LOW ENERGY service is used (See chapter 5.4).

1.1 Operating instructions

Applications: INTENSE. Ditec Civik is the ideal solution for all commercial environments such as offices and studios.

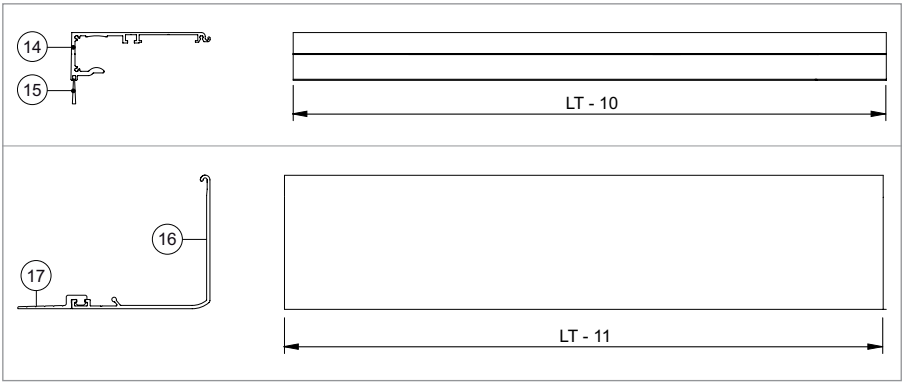
NOTE: the given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

2. Assembling



The supply modes for the CIVIK automations are as follows:

1. kit of components to be assembled;
2. automations assembled on a door wing in three different lengths.



To assemble the components kits, to reduce the standard LT dimensions, or to carry out an automation for two door wings, proceed as follows.

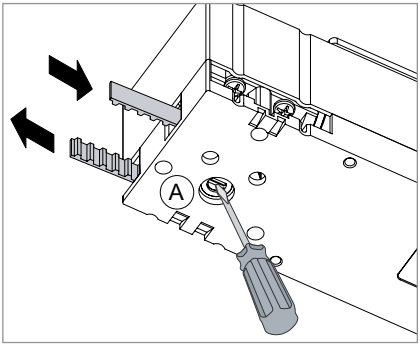
- Cut the box and the casing as indicated in figure.

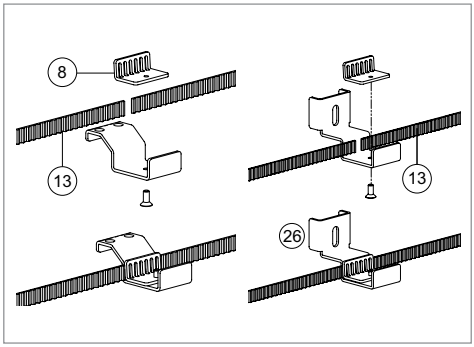
NOTE: remove any cut residues from the aluminium, and clean the carriage slide guides in particular.

- Assemble the necessary components as follows:

CIVIK 2 door wings (See chapter 2.2);
CIVIK 1 door wing with opening to the right (See chapter 2.3);
CIVIK 1 door wing with opening to the left (See chapter 2.4).

2.1 Belt assembling procedure

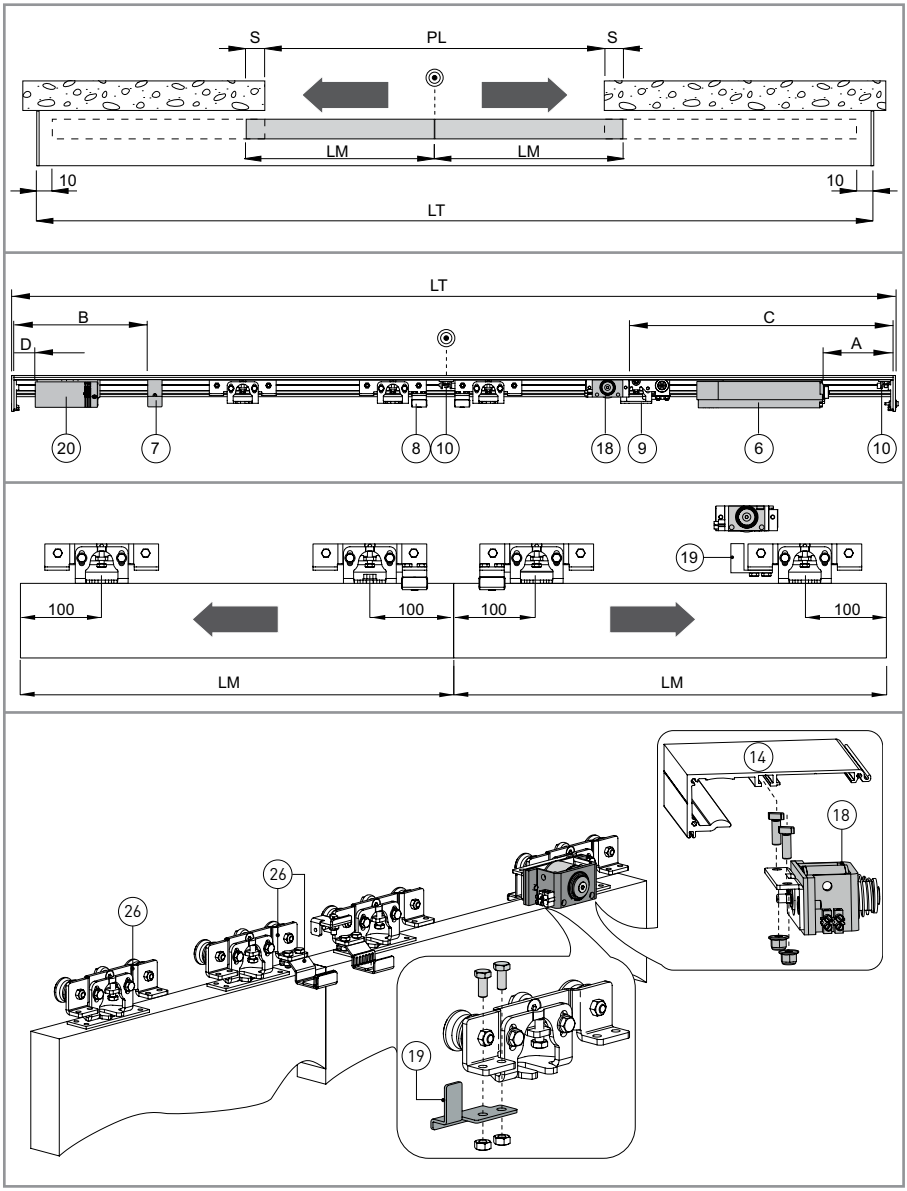




- Insert the belt in the motor, rotating the pin [A] as indicated in the figure.
- Join the belt in line with the belt attachment bracket, as indicated in the figure (on the right of the belt attachment pulling unit [26]). Cut any excess.
- Tighten the belt correctly, moving the belt transmission [7] to the left.
- Tighten all screws and secure the heads to the box.

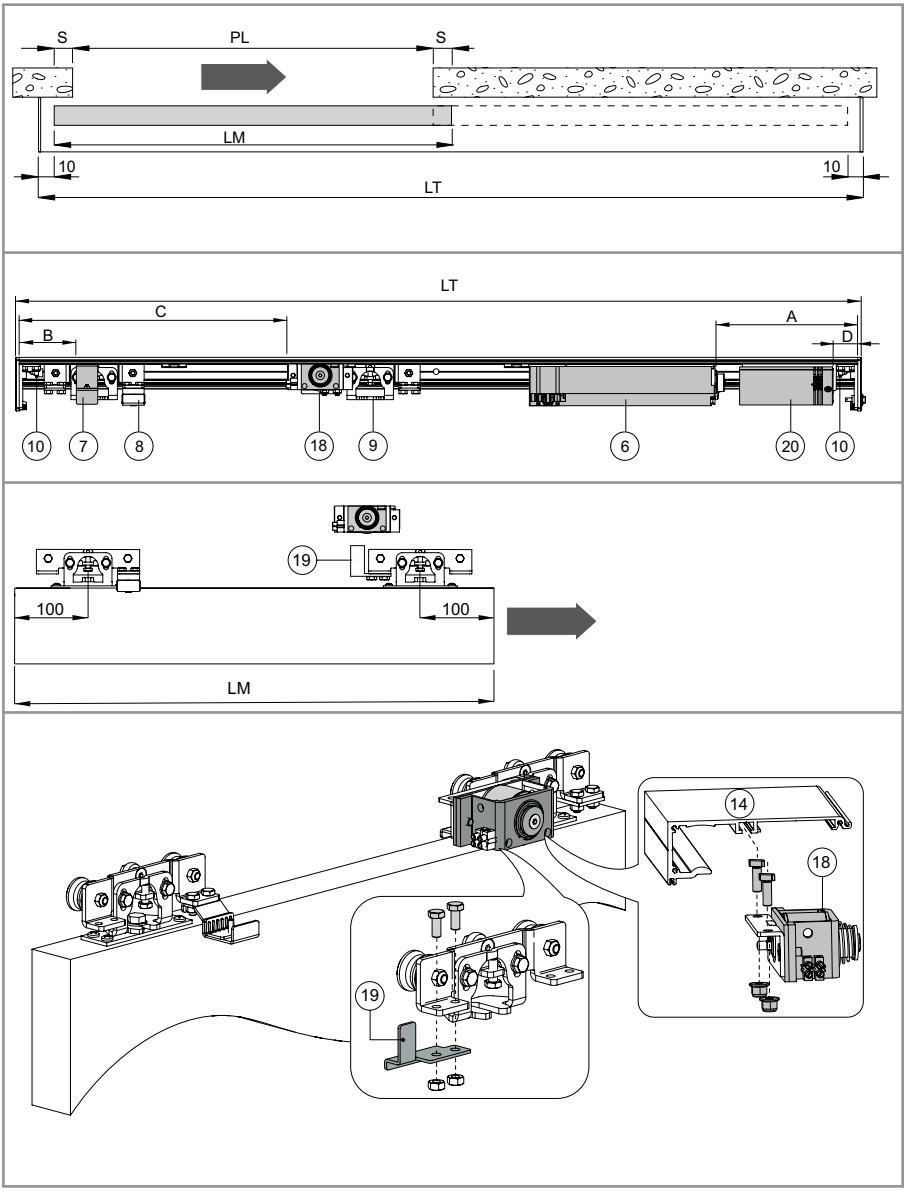
2.2 CIVIK 2

CODE	LT PL + 2LM + 20	LM	PL	A	B	C	D
DOITCVK22P + KCIVIKGCL	2200	(PL + 2S) / 2	LT - 2LM - 20	150	400	700	80
DOITCVK33P + KCIVIKGCL	3300			400	650	1000	80



2.3 CIVIK 1 RX

CODE	LT PL + LM + 20 + S	LM	PL	A	B	C	D
DOITCVK22P	2200	PL + 2S	LT - LM - 20 - S	500	70	850	350
DOITCVK33P	3300			1000	70	1350	900



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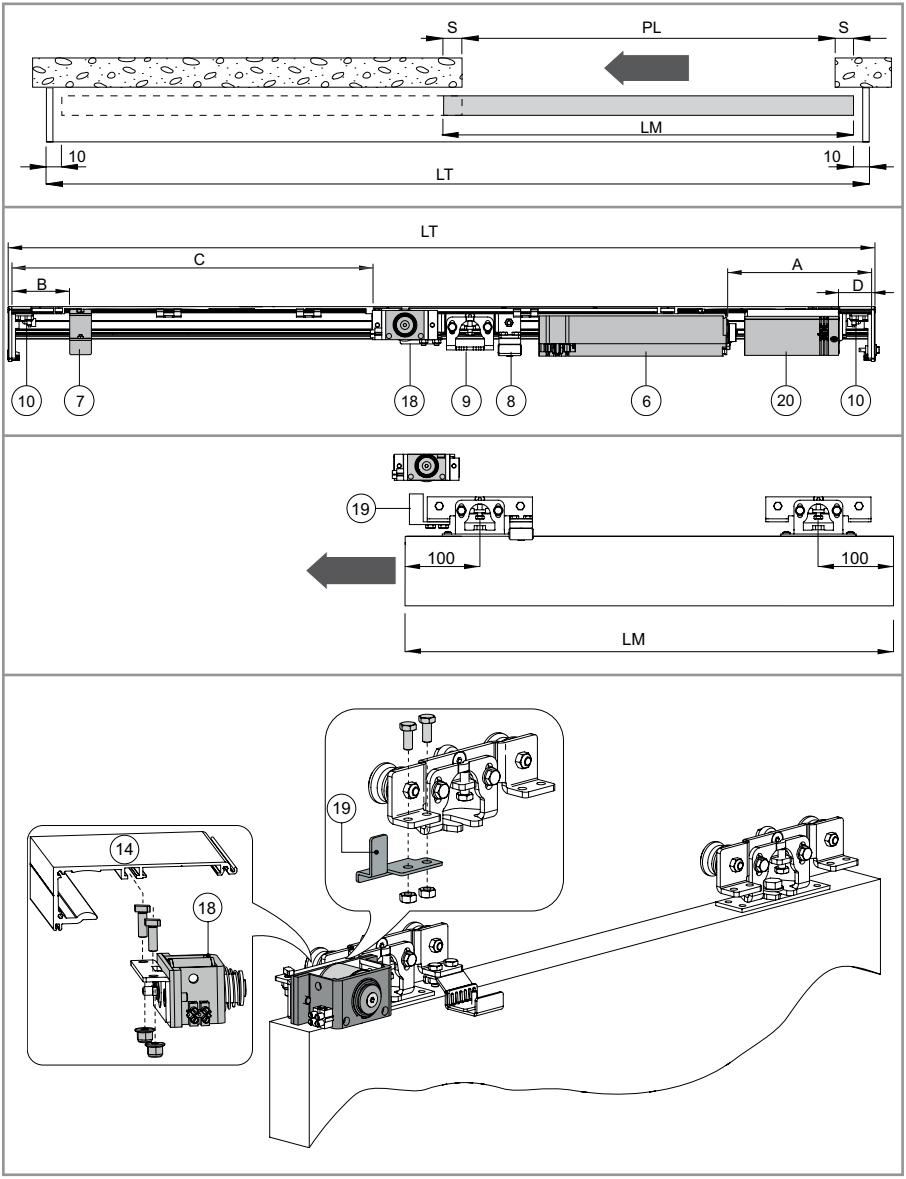
2.4 CIVIK 1 LT

CODE	LT PL + LM + 20 + S	LM	PL	A	B	C	D
DOITCVK22P	2200	PL + 2S	LT - LM - 20 - S	500	70	1050	350
DOITCVK33P	3300			1000	70	1600	900



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3. Installation

General tips / Safety concerns

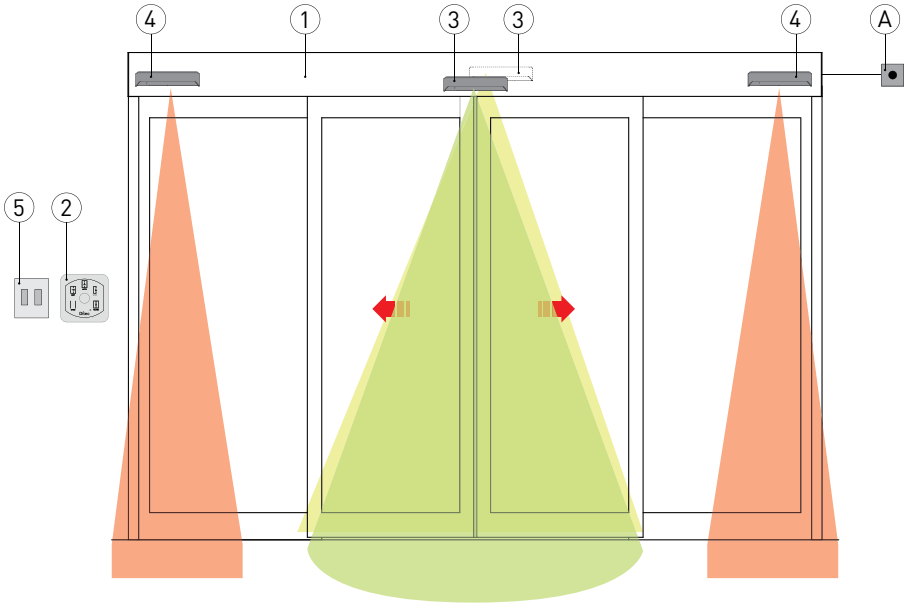
Ensure that entrapment between the driven part and the surrounding fixed parts due to the opening movement of the driven part is avoided. The following distances are considered sufficient to avoid entrapments for the parts of the body identified;

- for fingers, a distance greater than 25 mm or less than 8 mm
- for feet, a distance greater than 50 mm
- for heads, a distance greater than 300 mm
- and for the whole body, a distance greater than 500 mm.

If these distances can not be met, protection is necessary.

- Danger points shall be safeguarded up to a height of 2.5 m from the floor level.
- The operator shall not be used with a doorset incorporating a wicket door.
- The electrical switch must be positioned in the direct view of the driven part but away from the moving parts. Unless operated by a key, it must be installed at a minimum height of 1.5 m and not accessible to the public.

3.1 Standard installation



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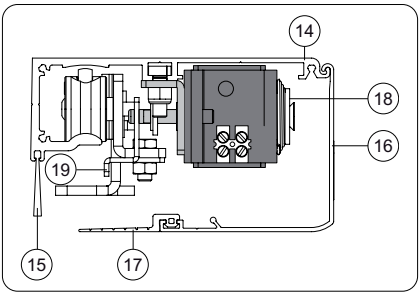
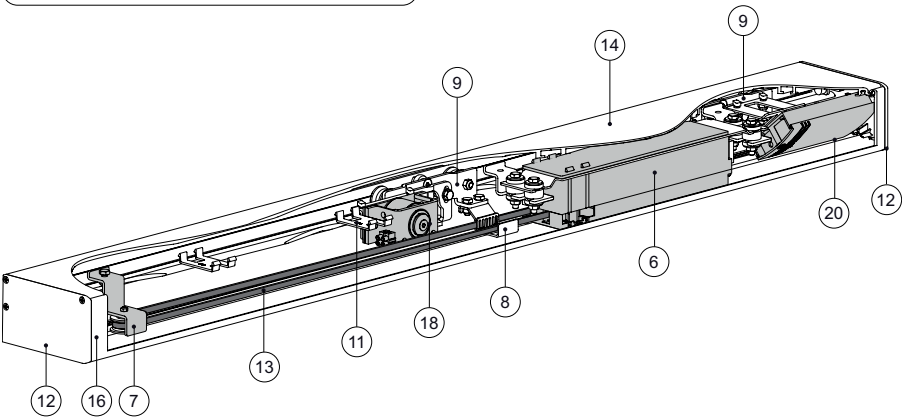
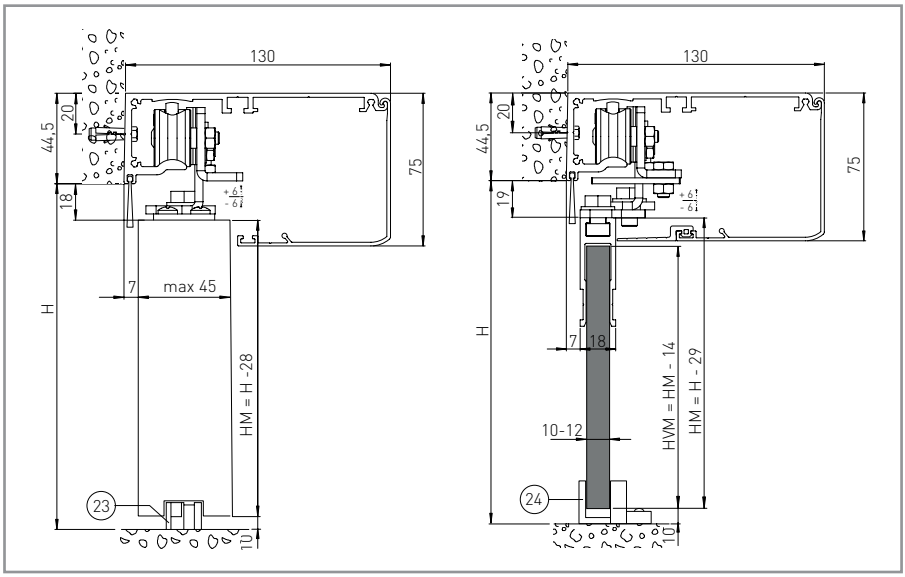




Ref.	Code	Description
1	DOITCVK22P DOITCVK33P	Operator
2	COM501HCV	Rotary function selector
3	PAS024AS(W)	Combined opening and safe closing sensor
4	PAS005AP	Safe opening sensor
5		Push-button
6	KCIVIK1P	Control and drive unit
7		Belt transmission unit
8		Belt attachment bracket
9		Carrier unit
10		Rabbed lock
11		Wire bracket
12		Housing heads

Ref.	Code	Description
13	KXL037K	Belt 20 m
14	V3760N66	Housing
15	VSP25V25	Seal brush 2,5 m
16	V3759N66	Carter
17	RGR351180	Gasket
18	CIVIKLA	Anti-panic lock
19		Lock hook-up bracket
20	OCL	Radio receiver
21	CIVIKAL	Wood door attachment
22	CIVIKAC	Glass door attachment
23	KP515AB	Sliding guide
24	KP369	Sliding guide for glass wing
26	KCIVIKGCL	Second door unit KIT

3.2 Fixing housing with use of supplied attachment brackets



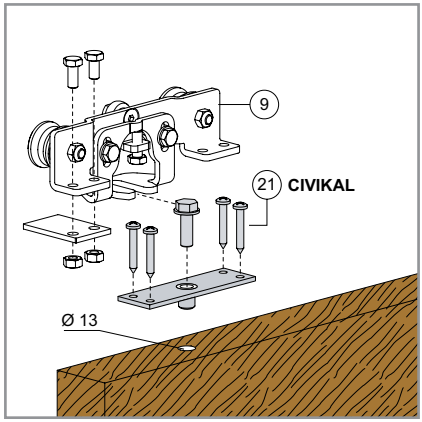
Unless otherwise specified, all measurements are expressed in millimetres (mm).
Figures show the fastening of the housing in accordance with the height of the wing:

- Fasten the housing by means of steel blocks M6 Ø12 or screws 6MA (not provided by us).
- Verify if housing rear side is perpendicular to the floor and not lengthwise deformed by the shape of wall. Should the wall not be straight and smooth, iron plates shall be arranged on it prior to guide fastening.

WARNING: the housing must be attached securely to the wall to support the weight of the wings.

3.3 Wood door wing preparation (CIVIKAL)

- The door must be robustly constructed.
- Fix the door wing attachment bracket on the door wing, and fix the latter to the carriage, as indicated in figure.
- It is advisable to install rubber borders at the ends of the wing to reduce force of impact.



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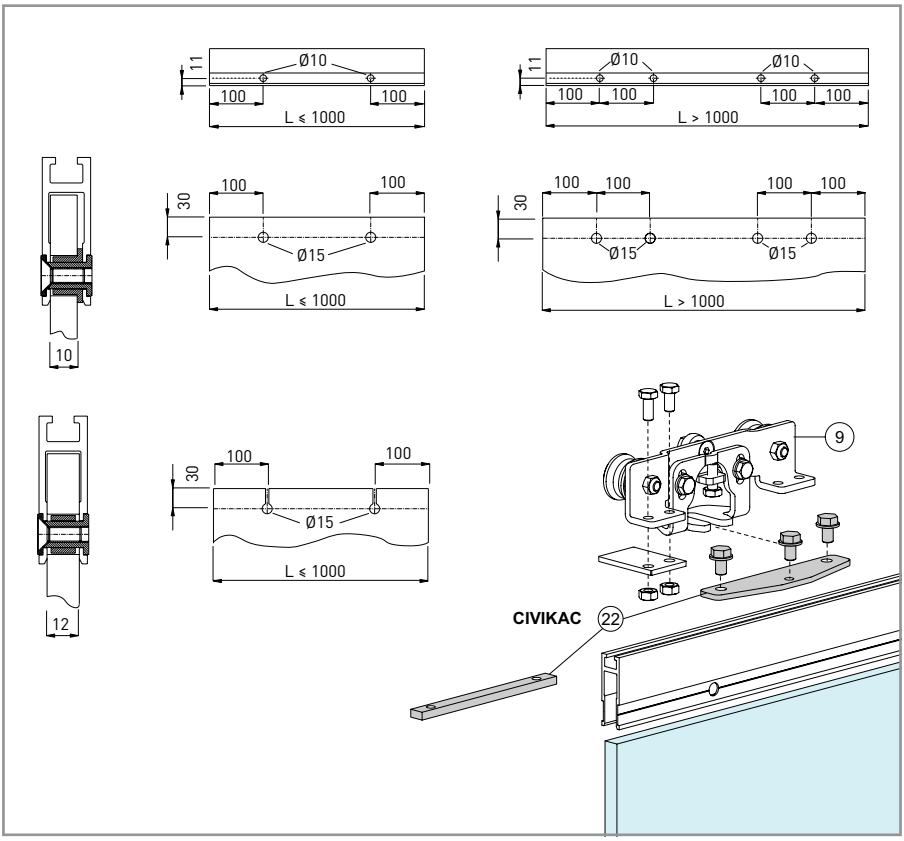
3.4 Glass door wing preparation (CIVIKAC)

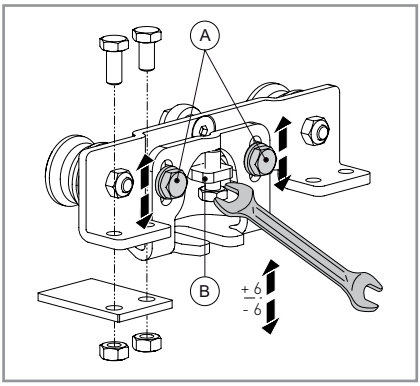


- The glass fitting section may be used with glass-only wings of 10 or 12 mm thickness. It is not usable on any kind of normal or stratified glass.
- Carry out the operations indicated in figure.
- We recommend to apply a light layer of silicone between the glass corner and the end of the profile.

WARNING: in closing position for all-glass wings, without gaskets, leave at least 10 mm to avoid contact between glass wings.

3.5 Door wing adjustment

- It is possible to adjust the vertical position of the door wing, as shown in the figure.
- Loosen the screws [A] and adjust height with screw [B].
- Check, by moving the wing by hand, that it moves freely and without friction and that all the wheels bear on the guide.

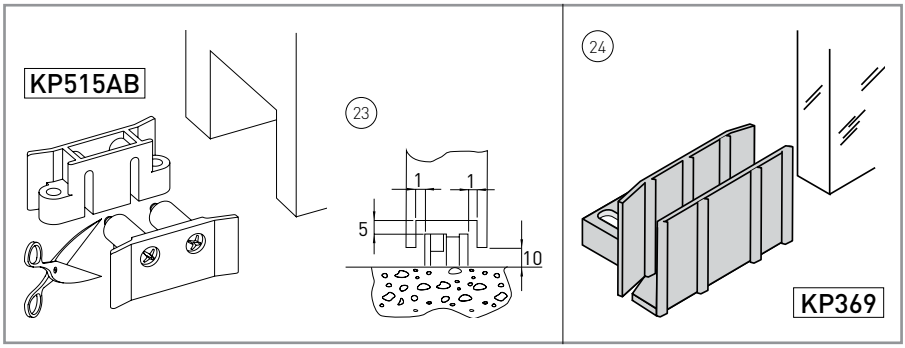


3.6 Belt tightness

- Tighten the belt correctly, moving the belt transmission [7] to the left.

WARNING: a wrong adjustment can prevent the automation from working properly.

3.7 Guides at floor installation



- For guides at floor use only antifriction materials such as PVC, NYLON, TEFLON.
- It is preferable that the length of the guide should not be greater than the overlap between the mobile and fixed wing, and that it not enter the passage space.
- The guide slide on the floor must be smooth for the entire length of the wing.
- [23] Guide for framed door supplied by us: cut to required.
- [24] Guide for glass door supplied by us.

3.8 Fastening door wing locking device CIVIKLA

The door wing locking device can be fitted to keep the door closed.
The automation automatically recognises the locking device and acts properly.

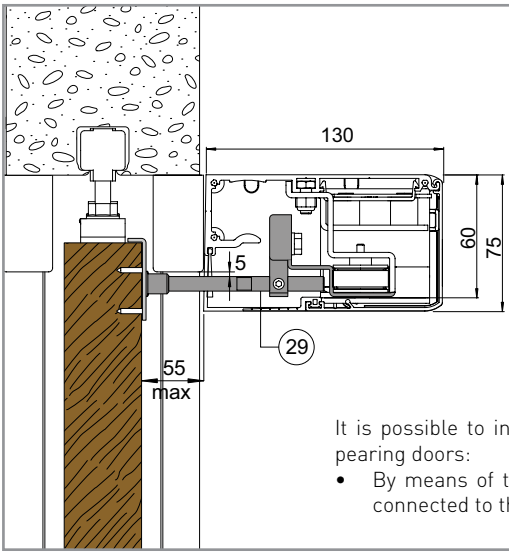
- Fix the door wing locking device [18] inside the box, using the screws supplied on the basis of the type of automation chosen.
- Place the door wing in the closure position.
- Fix the lock hook-up bracket [19] to the carriage.
- Check that, with the door closed, the lock is resting correctly on the lock hook-up bracket, preventing the door from sliding.
- Make the electrical connections

3.9 Fastening of the radio receiver OCL

It is possible to install the radio receiver that allows the door to be activated by means of wireless commands.

- Fasten the radio receiver [20] inside the box by means of the supplied screws.
- Carry out the electrical connections as shown in the related manual.
- Memorise the transmitters as shown in the related manual.

4. Installation on disappearing doors (KCIVIK1T)

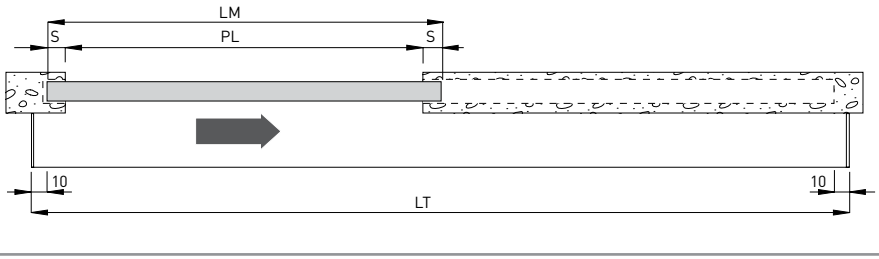


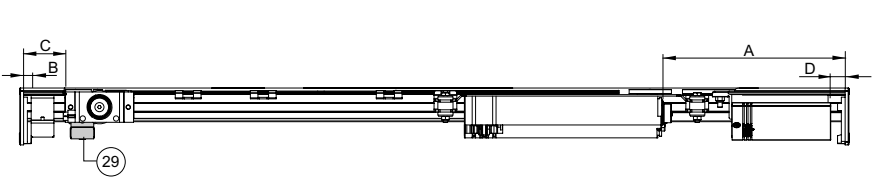
It is possible to install the CIVIK automation on disappearing doors:

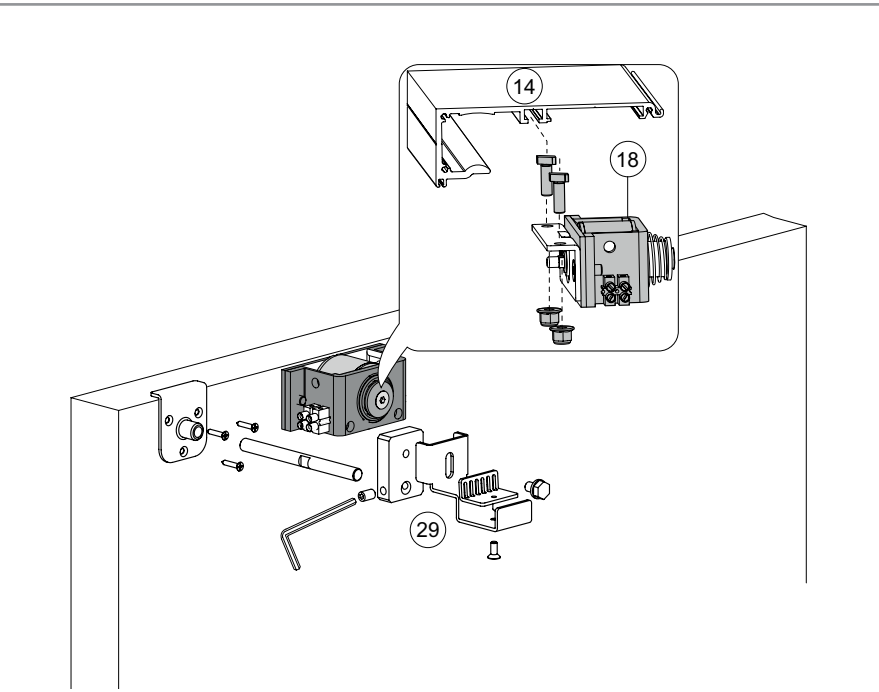
- By means of the pulling unit [29], the door wing is connected to the automation belt.

4.1 EXAMPLE

LT	LM	PL	A	B	C	D
1600	PL + 2S	1000 max	240	20	80	20







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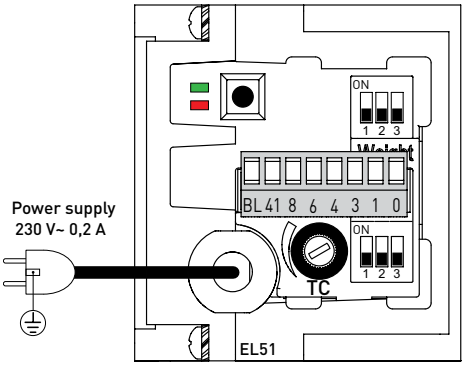
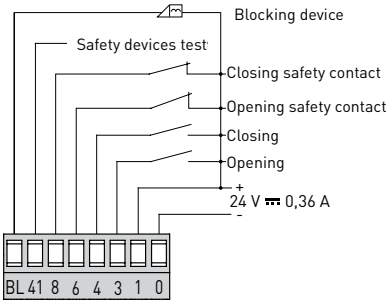
5. Electrical connections





NOTE: Max section of the wire that can be used on a single clamp = 1.3 mm ² (26AWG). If used wires with a larger diameter or more wires, make an external connection using a special terminal (not supplied).

5.1 Commands

Command		Function	Description
1 — 3	N.O.	OPENING	The opening manoeuvre starts when the contact is closed.
1 — 4	N.O.	CLOSING	The closing manoeuvre starts when the contact is closed.
1 — 3 1 — 4	N.O.	STOP	The coincidence of an opening and closing command stops all movements. WARNING: when the contact opens again the door proceeds with the interrupted manoeuvre.
1 — 6	N.C.	OPENING SAFETY CONTACT	The opening of the contact causes the opening speed to decrease in the last 500 mm of stroke of the door wing. NB: If no opening safety device is used and DIP3= ON, a jumper must be made on contacts 41-6.
1 — 8	N.C.	CLOSING SAFETY CONTACT	The opening of the contact reverses the movement (re-opening) during the closing operation. NB: If no closing safety device is used and DIP3= ON, a jumper must be made on contacts 41-8.
41 — (+) 0 ---- (-)	N.C.	SAFETY DEVICES TEST	Terminal 41 activates a test of the safety device on each cycle. If the test fails the RED LED flashes briefly and the test is repeated. With DIP3=ON connect terminal 41 and 0 of the control panel to the corresponding test terminals on the safety device. If the safety devices are not tested, see description DIP3=OFF.

5.2 Output and accessories

Output	Value - Accessories	Description
0 1 - +	24 V ⎓ 0,36 A	**Accessories power supply.** Power supply output for external accessories.
1 BL + -	**CIVIKLA** 24 V ⎓ 0,5 A	**Lock device.** Lock is only activated when the door is closed. NOTE: the door is released in the event of power failure and can be manually operated.

5.3 Adjustments

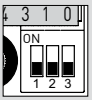
TRIMMER/DIP SWITCHES ADJUSTMENT ENABLING PROCEDURE

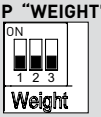
The trimmers and DIPs affect the force limiting safety function.

WARNING: They must be set as instructed, (if not, the modifications will not be accepted and the RED and GREEN LEDs will flash).

During the setting phase, the operator stops and it is not possible to carry out commands.

- Press the button for 4 s (RED and GREEN LEDs on);
- Adjust the trimmers and DIP switches within the 5-minute time limit;
- To complete the procedure, press the button for 2 s, the operator continues the previously interrupted operation.

		Description	OFF	ON
	DIP1	**Closure thrust.** Maintain the door wing in the closure position.	Disabled.	Enabled.
	DIP2	**Direction selection.** The opening direction is intended by viewing the automation from the side being examined.	Righthand opening. Automation with 2 door wings	Lefthand opening.
	DIP3	**Safety test terminal 41**	Disabled The safety sensors are not monitored and the NC contacts must be connected to terminals 1-6 and 1-8.	Enabled.

	Description	OFF	ON
DIP "WEIGHT" 	**Select wing weight for LOW ENERGY use**	See chapter 10	See chapter 10

TC 	**Automatic closing time.** From 0 to 30 s. Adjust the time that passes between the end of the opening operation and the start of the automatic closing operation. The count is reset when an opening command is given with the door open. Adjust the TC to the maximum if automatic closing is not required.

	**Opening** Press quickly to activate the opening operation
	ENABLING of trimmer/dip switches adjustment (red+green LEDs on, see enabling procedure)

LED	On	Flashing light
Green	Power supply on	Encoder not working or automation faulty.
Red	Safety contacts 6 or 8 open.	Safety test failure.
Red + Green +	Trimmer/dip switches adjustment procedure enabling	• 2 flashes = trimmer/dip switches adjustment confirmed • 4 flashes at 1s intervals, indicates that an adjustment has been made without first enabling the adjustment procedure:perform the enabling procedure again.
Red / Green /		**alternately flashing light** the automation is stopped due to coinciding opening and closing commands

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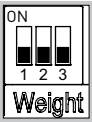
5.4 Requisites for doors for Low Energy use

The CIVIK automation is factory supplied with maximum performance setting. If used with the Low Energy service, the "Weight" dip switches must be selected according to the weight of the door wing, as shown in the following table. **NB**: consider the weight of a single door wing.

WARNING: an incorrect setting of the dip with respect to the weight of the door leads to an incorrect speed and consequent operation inconsistent with Low Energy use.

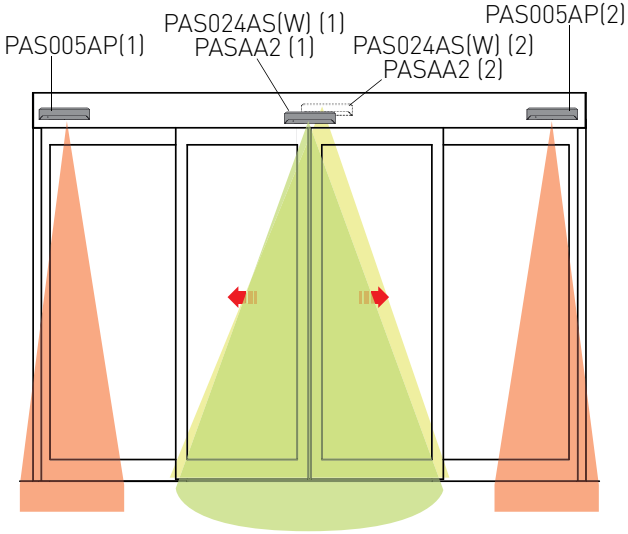


DIP "WEIGHT"

DIP1	DIP2	DIP3	Weight of a door wing	Opening speed	Performance
OFF	OFF	OFF	Up to a max 60 kg (1 door) or 2 x 40 kg (2 doors)	0,40 m/s	Maximum performance, NO Low Energy
ON	OFF	OFF	Up to 25 Kg	0,36 m/s	Low energy performance
OFF	ON	OFF	From 26 → 30 kg	0,34 m/s	
ON	ON	OFF	From 31 → 35 kg	0,31 m/s	
OFF	OFF	ON	From 36 → 40 kg	0,29 m/s	
ON	OFF	ON	From 41 → 45 kg	0,27 m/s	
OFF	ON	ON	From 46 → 50 kg	0,26 m/s	
ON	ON	ON	From 51 → 60 kg	0,24 m/s	

NOTE: The closing speed, regardless of the weight of the leaf(s) and the "WEIGHT" DIP setting, is always 0.2 m/s for a single leaf, 0.4 m/s for a double leaf (low energy performance)

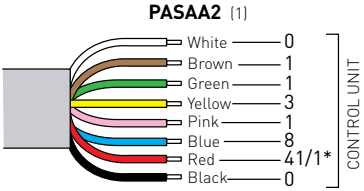
6. Connection examples



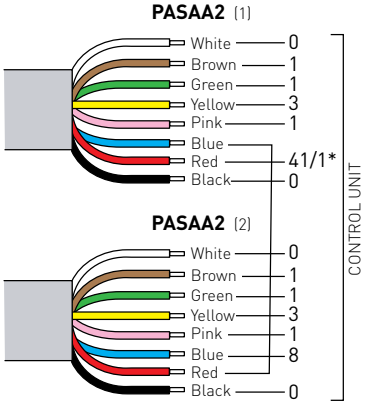
6.1 No safety sensor

6.2 Opening and safety sensors (1 and 2)

1 SENSOR



2 SENSORS



* Connect to 41 If DIP3= ON; connect at 1 if DIP3= OFF

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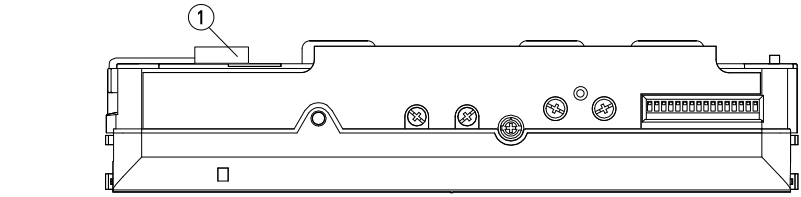
Set the selection DIP switches on sensor PASAA2 as shown below, for other adjustments refer to the sensor manual



1 8 pin connector

1 10 pin connector

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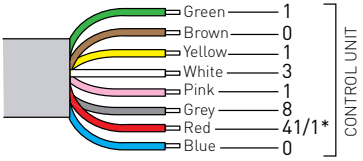
1 SENSOR

PAS024AS(W) [1]

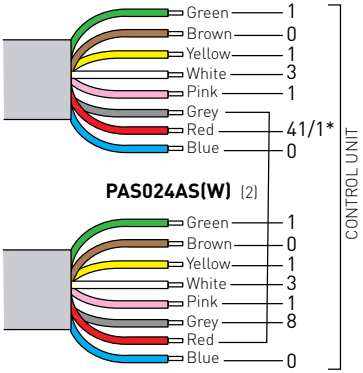


* Connect to 41 If DIP3= ON; connect at 1 if DIP3= OFF

2 SENSORS

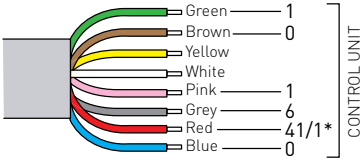
PAS024AS(W) [1]

PAS024AS(W) [2]



1 SENSOR

PAS005AP [1]

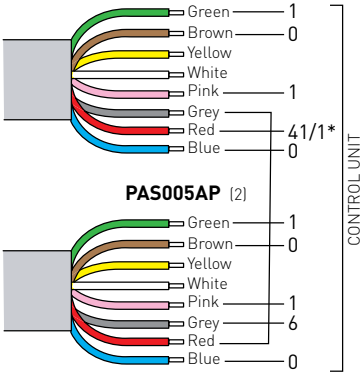


* Connect to 41 If DIP3= ON; connect at 1 if DIP3= OFF

2 SENSORS

PAS005AP [1]

PAS005AP [2]



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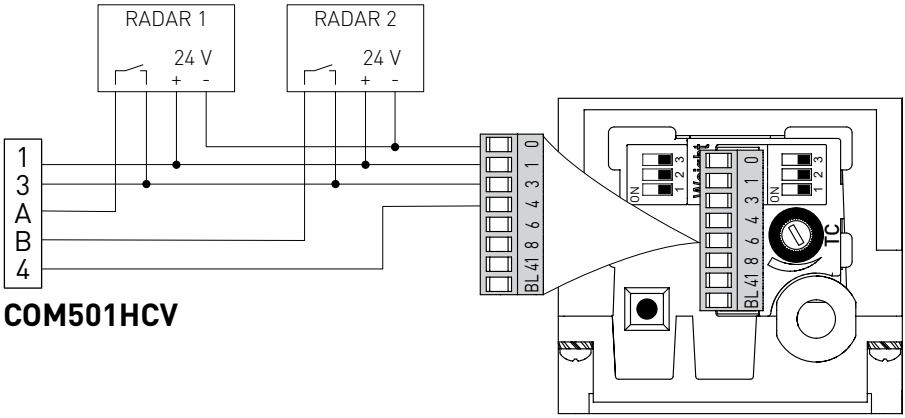
6.3 COM501HCV function selector connection

(refer to the COM501HCV manual for further information)



COM501HCV

IP2319EN

7. Start-up

- Connect the accessories;
- Make a jumper on the safety contacts 1-8 and 1-6 (41-8 and 41-6 if DIP3= ON) on the control panel if not used;
- Reconnect the mains power supply to the automation;
- Enable the trimmer/dip switches adjustment;
- Select dips 1, 2, 3 and the trimmer TC based on the desired operation (See paragraph 9.3);
- Select dip "weight " 1, 2, 3 based on the wing weight if you want to use the automation with LOW ENERGY performance.

WARNING: the control panel performs an automatic RESET on each start and the first opening or closing manoeuvre is performed at low speed allowing the automatic self-learning of the stop positions (acquisition).

- Check that the door is operating correctly with a further opening command.
- Check the operation of the connected accessories.
- If the automation encounters an obstacle during closure, it is detected and the automation opens again. - If the automation encounters an obstacle during opening, it is detected and the automation stops. If the obstacle is detected three times consecutively, it is considered as the new stop until it is removed.
- The automation is equipped with the Push&Go/Pull&Close function. The motorised opening or closing operation is activated when the door is pushed.

WARNING: If the automation is not powered, it is possible to slide the doors manually but only by moving them slowly.

8. Routine maintenance plan

Perform the following operations and checks every 6 months, according to the intensity of use of the automation.

Without 230 V~ power:
- Clean the moving parts (the carriage guides).
- Check the belt tension.
- Clean the opening and closing sensors (if present).
- Check the stability of the automatic system and make sure that all screws are correctly tightened.
- Check the alignment of the door wing and the stop position.

Turn on the 230 V~ power:
- Check the stability of the door, and make sure it moves smoothly.
- Check that all control functions are operating correctly.
- Make sure the opening and closing sensors are working correctly (if present).
- Make sure the installation complies with the current regulations and the essential requisites laid down by the relevant authorities.

NOTE: for spare parts, see the spares price list. Only use original spare parts for repairing or replacing products.

NOTE: The installer must supply all information concerning the automatic, manual and emergency operation of the motorised automation or gate, and must provide the user with the operating instructions. The installer must prepare and keep a maintenance record showing all the routine and extraordinary maintenance work carried out.

The crossed-out wheeled bin symbol indicates that the product should be disposed of separately from household waste. The product should be handed in for recycling in accordance with local environmental regulations for waste disposal. By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or landfill and minimize any potential negative impact on human health and the environment.

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