

OPERATORS & ACCESSORIES

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*"A specialist operator
for every use"*

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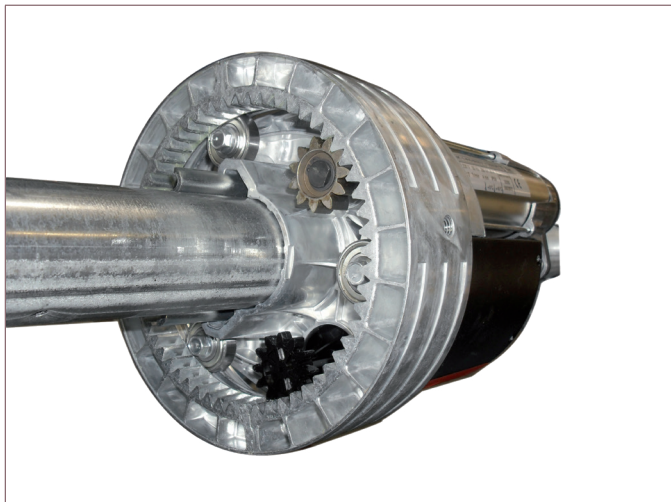




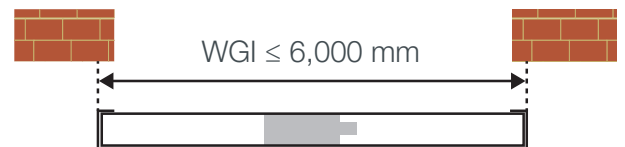
OPERATORS

- Available for Murax shutters and Dentel grilles only, the type of operator is determined according to the **dimensions** and the **number of cycles per day**.
- **The reservations** required for the operators depend on the **size** and **weight** of the shutter. Please contact our quotation team for the exact values.
- As all of our products are custom-made, our quotation team will determine the most suitable operator according to the shutter characteristics, the layout and the types of operation.

Axial operator/Operator veoHz



- Positioned in the center of the spring-loaded shaft (curved profiles and spring spools not shown)
- Repair using release cable and direct pull



HRN ≤ 5,300 mm
W ≤ 240 Kg
Up to 15 cycles per day
No reservation

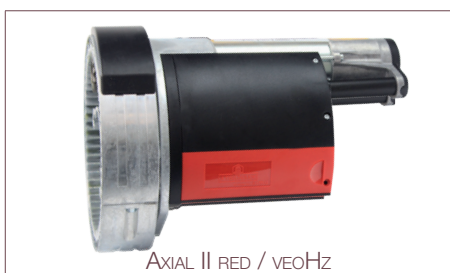
• Technical characteristics of operators

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NO OF CYCLES* PER DAY	TORQUE (Nm)
Axial II red/veoHz	230 mono	300	1.3	3 x 2.5	IPX4	10	15	75
Axial III yellow/veoHz	230 mono	360	1.6	3 x 2.5	IPX4	10	15	100
Axial III gray/veoHz	230 mono	450	2	3 x 2.5	IPX4	10	15	140

*1 cycle = 1 ascent + 1 descent - Non-consecutive cycles

• Reservations

TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER DIMENSION OF OPERATOR (LDO)	
					WITHOUT SUPPORT	WITH SUPPORT
Axial/veoHz	0	0	0	0	0	



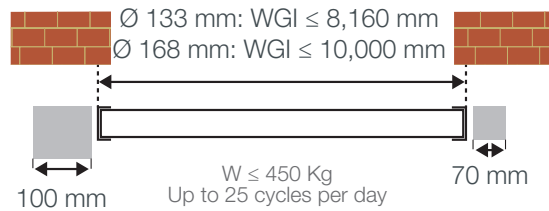
The Murax 47, the security shutter and the security roller shutter cannot be motorized with this type of operator.



Tubular operators



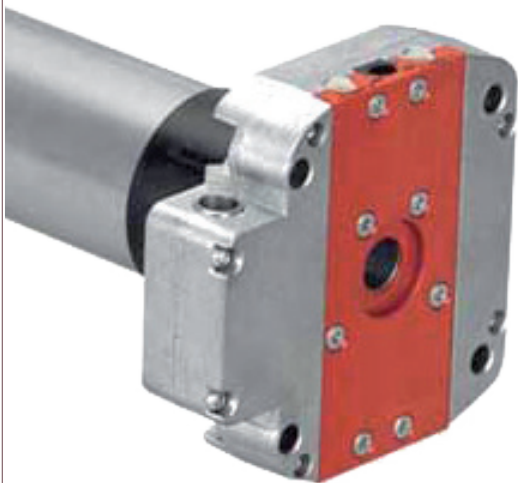
TUBULAR OPERATORS T15M / T20M / T25M / T30M / T35M / T45M
TB20M / TB25M / TB30M / TB35M / TB45M



- Repair via oscillating rod
- Safety features (limit-switch system, integrated temperature sensor, integrated electromagnetic brake)
- Easy to adjust
- Shaft equipped with tubular operator supplied with anti-fall guard as standard

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NB OF CYCLES* PER DAY	TORQUE (Nm)
T15M	230 mono	450	2	3 x 2.5	IP44	8	25	150
T20M, TB20M	230 mono	550	2.4	3 x 2.5	IP44	8	25	200
T25M, TB25M	230 mono	710	3.2	3 x 2.5	IP44	8	25	250
T30M, TB30M	230 mono	855	3.9	3 x 2.5	IP44	8	25	300
T35M, TB35M	230 mono	990	4.4	3 x 2.5	IP44	8	25	350
T45M, TB45M	230 mono	1,200	5.3	3 x 2.5	IP44	8	25	450

* 1 cycle = 1 ascent + 1 descent - Non-consecutive cycles



TUBULAR OPERATOR DMI

Operator specifically designed for the **Murax 47** shutter



- Repair via oscillating rod
- Safety features (limit-switch system, integrated temperature sensor, integrated electromagnetic brake)
- Easy to adjust
- A discreet solution with reduced dimensions
- Shaft equipped with tubular operator supplied with anti-fall guard as standard

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NB OF CYCLES* PER DAY	TORQUE (Nm)
TUBULAR DMI 520	230 mono	160	0.75	3 x 2.5	IP44	17	15	20
TUBULAR DMI 530	230 mono	240	1.1	3 x 2.5	IP44	17	15	30
TUBULAR DMI 660	230 mono	240	1.25	3 x 2.5	IP44	12	15	60

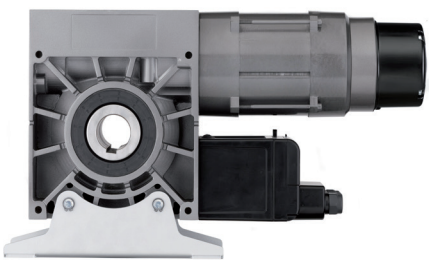
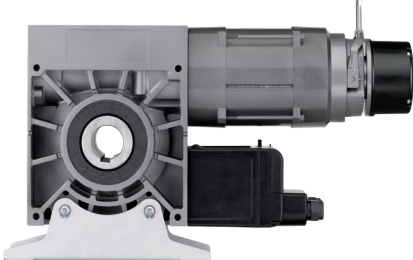
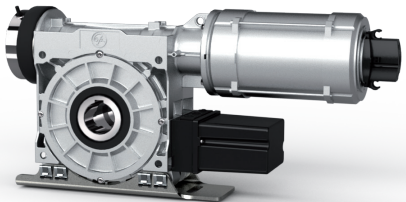
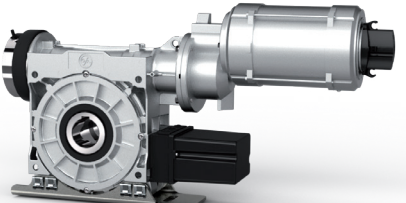
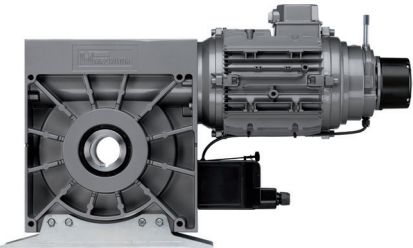
* 1 cycle = 1 ascent + 1 descent - Non-consecutive cycles

- Reservations (excluding tubular operator DMI)

TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)	
					WITHOUT SUPPORT	WITH SUPPORT
Tubular	100	70	0	0	0	



Classic external operators

E 400			OPERATOR E 400							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		Torque (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			E400	alone	180	100	1/2 plate + 390	160	145	470
crank	390	100		1/2 plate + 600	380	220	470			
hoist	210	100		1/2 plate + 480	190	145	470			
E 750			OPERATOR E 750							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (ECM)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		Torque (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			E750	alone	180	100	1/2 plate + 420	190	145	460
crank	390	100		1/2 plate + 630	380	220	460			
hoist	240	100		1/2 plate + 500	190	145	460			
S 100			OPERATOR S 100							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		Torque (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			S100	alone	210	100	1/2 plate + 500	210	135	590
crank	410	100		1/2 plate + 760	420	190	590			
hoist	210	100		1/2 plate + 590	210	135	590			
S 140			OPERATOR S 140							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		Torque (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			S140	alone	210	100	1/2 plate + 570	250	135	590
crank	410	100		1/2 plate + 840	480	135	590			
hoist	210	100		1/2 plate + 660	250	135	590			
S 2000			OPERATOR S 2000							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		Torque (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			S2000	alone	240	140 *	1/2 plate + 590	310	200	510
crank	540	140 *		1/2 plate + 800	520	290	510			
hoist	280	140 *		1/2 plate + 700	310	200	510			

* Lower dimension = 570 mm in relation to the winding shaft

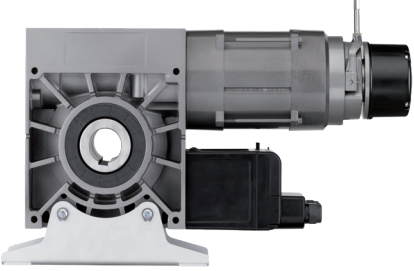
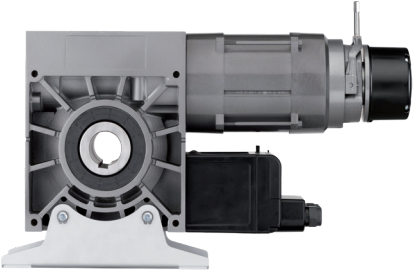
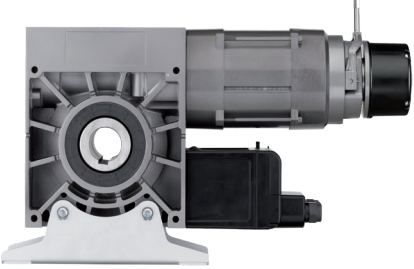
• Technical characteristics of operators

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NB OF CYCLES** PER DAY	TORQUE (Nm)
E400	230 tri	1,100	8.83	5 x 2.5	IP54 ****	12	100	400
	400 tri ***	1,100	5.1	5 x 2.5	IP54 ****	12	100	
E750	400 tri ***	1,400	3.9	5 x 2.5	IP54 ****	10	50	750
S100	400 tri	1,300	6.5	5 x 2.5	IP54	10	100	1,000
S140	400 tri	1,100	4.1	5 x 2.5	IP54	7	100	1,400
S2000	400 tri + N	2,500	8.1	5 x 2.5	IP54 ****	8	100	2,000

1 cycle = 1 ascent + 1 descent - Non-consecutive cycles / ** 400 tri + N if using flashing or illumination lights / ** Protection class 65 on request



Rapid external operators for Insulated Murax shutter

R 400			OPERATOR R 400							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		TORQUE (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			E400	alone	190	100	1/2 plate + 410	200	145	460
crank	390	100		1/2 plate + 625	360	145	460			
hoist	230	100		1/2 plate + 500	200	145	460			
R 750			OPERATOR R 750							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		TORQUE (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			R750	alone	205	100	1/2 plate + 490	245	135	440
crank	390	100		1/2 plate + 705	380	135	440			
hoist	250	100		1/2 plate + 550	245	135	440			
R 1250			OPERATOR R 1250							
			TYPE OF OPERATOR	OPERATOR SIDE DIMENSION (OSD)	OPPOSITE SIDE TO OPERATOR DIMENSION (OOD)	OPERATOR DEPTH (OD)	UPPER DIMENSION OF OPERATOR (UDO)	LOWER OPERATOR DIMENSION (LDO)		TORQUE (Nm)
								WITHOUT SUPPORT	WITH SUPPORT	
			R1250	alone	215	100	1/2 plate + 570	265	200	505
crank	390	100		1/2 plate + 785	410	200	505			
hoist	265	100		1/2 plate + 675	285	200	505			

*Lower dimension = 570 mm in relation to the winding shaft

• Technical characteristics of operators

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NB OF CYCLES** PER DAY	TORQUE (Nm)
R400	400 tri / 3 + N	1.7	4.2	5 x 2.5	IP54	24	20	400
R750	400 tri / 3 + N	3	7	5 x 2.5	IP54	24	20	750
R1250	400 tri / 3 + N	4	10	5 x 2.5	IP54	24	20	1,250

**1 cycle = 1 ascent + 1 descent - Non-consecutive cycles



Hold to run (trained users)

This operating mode can be used for all shutter locations. It requires a controller that allows constant user control (continuous action on the control device and within sight of closing).



Caution: In public areas, the controller must be personalized, e.g. a key switch box.

• Safety devices required		OUTSIDE PUBLIC AREA / IN PUBLIC AREA (WITHIN SIGHT OF DOOR)	
INDUSTRIAL OR COMMERCIAL PREMISES, OR GARAGES		• No safety device required	
CONTROLLERS			
 <p>BBA1</p> <p>Wall-mounted toggle-switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 90×90×55 mm • protection class: IP ND 	 <p>BCA</p> <p>Wall-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74×74×55 mm • protection class: IP 54 • number of keys: 2 		
 <p>BBE1</p> <p>Flush-mounted toggle-switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 87×85×10 mm • flush-mounted dimensions: 50×55×20 mm • protection class: IP ND 	 <p>BCE</p> <p>Flush-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 90×100×6 mm • flush-mounted dimensions: 74×74×45 mm • protection class: IP 54 • number of keys: 2 		
 <p>BBA2</p> <p>Wall-mounted 2-button box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 70×107×65 mm • protection class: IP 65 	 <p>BCDA</p> <p>Wall-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74×100×65 mm • protection class: IP 54 • number of keys: 2 • for Axial operator 		
 <p>Transmitter</p> <p>Remote control:</p> <ul style="list-style-type: none"> • dimensions: 65×32×11 mm • protection class: IP ND • 4 functions • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W) 	 <p>BCDE</p> <p>Flush-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 100×125×6 mm • flush-mounted dimensions: 74×100×60 mm • protection class: IP 54 • number of keys: 2 • for Axial operator 		
 <p>Key pad</p> <p>Wireless, wall-mounted key pad:</p> <ul style="list-style-type: none"> • protrusion dimensions: 82×78×31 mm • protection class: IP 65 • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W) 	 <p>BCBA</p> <p>Wall-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85×85×61 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 		
 <p>Sécurinox</p> <p>Sécurinox release box with tubular / European cylinder:</p> <ul style="list-style-type: none"> • protrusion dimensions: 45×255×10 mm • flush-mounted dimensions: 34×237×37 mm • protection class: IP 40 • number of keys: 2 • for Axial operator 	 <p>BCBE</p> <p>Flush-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85×85×10 mm • flush-mounted dimensions: Ø 65×50 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 		
 <p>BDD</p> <p>Junction box with double release mechanism:</p> <ul style="list-style-type: none"> • protrusion dimensions: 50×100×25 mm • protection class: IP ND • for Axial operator 	 <p>BBAR</p> <p>Wall-mounted 2-button radio box</p> <ul style="list-style-type: none"> • protrusion dimensions: 70×70×17 mm • protection class: IP ND • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W) 		
 <p>3-button portable transmitter veoHz:</p> <ul style="list-style-type: none"> • dimensions: 53×35×11 mm • 1 transmitter provided • for operator veoHz 	 <p>Wall-mounted key switch and release box veoHz:</p> <ul style="list-style-type: none"> • protrusion dimensions: 140×86×50 mm • protection class: IP 54 • number of keys: 2 • European cylinder • for operator veoHz 		
 <p>Wall-mounted 3-button transmitter veoHz:</p> <ul style="list-style-type: none"> • dimensions: 56×40×15 mm • outside of public areas only • for operator veoHz 			



Impulse operation for ascent / Hold to run for descent (trained users)

This operating mode allows opening by impulse operation and closing by hold to run (previously combined operation under French Standard NFP 25362). This operating mode is related to impulse operation in the Standard EN 13241 + A2.



The necessary safety measures vary according to the products used (see specific chapter for the product concerned), and according to the following criteria:

- The location of the project
 - Outside public areas (within or out of sight of door)
 - In public areas (within or out of sight of door)
- Type of project
 - Industrial or commercial premises, or garages
 - Houses



Caution: In public areas, the controller must be personalized, e.g. a key switch box.

CONTROLLERS			
 <p>BBA3</p>	<p>Wall-mounted 2-button box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 136×68×65 mm • protection class: IP 65 • excludes the Easy 1 box 	 <p>BCA</p>	<p>Wall-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74×74×55 mm • protection class: IP 54 • number of keys: 2
 <p>BBAS</p>	<p>Wall-mounted box with stop button:</p> <ul style="list-style-type: none"> • protrusion dimensions: 68×68×65 mm • protection class: IP 65 • to be used with BCA/BCE key switch box • excludes the Easy 1 box 	 <p>BCE</p>	<p>Flush-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 90×100×6 mm • flush-mounted dimensions: 74×74×45 mm • protection class: IP 54 • number of keys: 2
 <p>BCBA</p>	<p>Wall-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85×85×61 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCDA</p>	<p>Wall-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74×100×65 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>BCBE</p>	<p>Flush-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85×85×10 mm • flush-mounted dimensions: Ø 65×50 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCDE</p>	<p>Flush-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 100×125×6 mm • flush-mounted dimensions: 74×100×60 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>Transmitter</p>	<p>Remote control:</p> <ul style="list-style-type: none"> • dimensions: 65×32×11 mm • protection class: IP ND • 4 functions • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W) 	 <p>Key pad</p>	<p>Wireless, wall-mounted key pad:</p> <ul style="list-style-type: none"> • protrusion dimensions: 82×78×31 mm • protection class: IP 65 • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W)
 <p>Sécurinox</p>	<p>Sécurinox release box with tubular / European cylinder:</p> <ul style="list-style-type: none"> • protrusion dimensions: 45×255×10 mm • flush-mounted dimensions: 34×237×37 mm • protection class: IP 40 • number of keys: 2 • for Axial operator 	 <p>BDD</p>	<p>Junction box with double release mechanism:</p> <ul style="list-style-type: none"> • protrusion dimensions: 50×100×25 mm • protection class: IP ND • for Axial operator
 <p>veoHz</p>	<p>Wall-mounted key switch and release box veoHz:</p> <ul style="list-style-type: none"> • protrusion dimensions: 140×86×50 mm • protection class: IP 54 • number of keys: 2 • European cylinder 	 <p>BBAR</p>	<p>Wall-mounted 2-button radio box</p> <ul style="list-style-type: none"> • protrusion dimensions: 70×70×17 mm • protection class: IP ND • for Easy 1 box (up to 700W) • for Easy 2 box (up to 1,300W)
 <p>3-button transmitter veoHz</p>	<p>3-button portable transmitter veoHz:</p> <ul style="list-style-type: none"> • dimensions: 53×35×11 mm • 1 transmitter provided • for operator veoHz 	 <p>Wall-mounted 3-button transmitter veoHz</p>	<p>Wall-mounted 3-button transmitter veoHz:</p> <ul style="list-style-type: none"> • dimensions: 56×40×15 mm • Outside of public areas only • for operator veoHz



Impulse operation (trained users)

In impulse operation mode, the user is required to perform a brief action on the controller which triggers the movement of the shutter: open, stop or close.



Caution in the workplace: 2 flashing spots + markings on the ground are now legally required according to the decree of 21 December 1993.



The necessary safety measures vary according to the products used (see specific chapter for the product concerned), and according to the following criteria:

- The location of the project
 - Outside public areas (within or out of sight of door)
 - In public areas (within or out of sight of door)
- Type of project
 - Industrial or commercial premises, or garages
 - Houses

CONTROLLERS			
 <p>BBAI</p>	<p>Wall-mounted impulse button box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 68x68x65 mm • protection class: IP 65 <p>NOTE: for houses; the BBA must be installed at a height of more than 1.5 m from the ground</p>	 <p>BCA</p>	<p>Wall-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x74x55 mm • protection class: IP 54 • number of keys: 2
 <p>BCBA</p>	<p>Wall-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85x85x61 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCE</p>	<p>Flush-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 90x100x6 mm • flush-mounted dimensions: 74x74x45 mm • protection class: IP 54 • number of keys: 2
 <p>BCBE</p>	<p>Flush-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85x85x10 mm • flush-mounted dimensions: Ø 65x50 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCDA</p>	<p>Wall-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x100x65 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>Transmitter</p>	<p>4-function transmitter (Commerce and Industry):</p> <ul style="list-style-type: none"> • dimensions: 65x32x11 mm • protection class: IP ND • frequency: 433 MHz 	 <p>BCDE</p>	<p>Flush-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 100x125x6 mm • flush-mounted dimensions: 74x100x60 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>Receiver</p>	<p>Separate 2-function receiver:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x132x26 mm • protection class: IP 55 • frequency: 433 MHz. • for a 4-function transmitter • power supply: 12 - 24 V 	 <p>Murax transmitter</p>	<p>Murax VILLA 2-function transmitter:</p> <ul style="list-style-type: none"> • dimensions: 72x41x14 mm • protection class: IP 30 • frequency: 433.42 MHz. <p>NOTE: Receiver integrated into Murax VILLA box</p>
 <p>Sécurinox</p>	<p>Sécurinox release box with tubular / European cylinder:</p> <ul style="list-style-type: none"> • protrusion dimensions: 45x255x10 mm • flush-mounted dimensions: 34x237x37 mm • protection class: IP 40 • number of keys: 2 • for Axial operator 	 <p>Key pad</p>	<p>Wireless, wall-mounted key pad:</p> <ul style="list-style-type: none"> • protrusion dimensions: 82x78x31 mm • protection class: IP 65
 <p>Flashing light</p>	<p>Flashing light</p> <ul style="list-style-type: none"> • protrusion dimensions: 45x90x40 mm • protection class: IP 54 • multi-voltage: 24 - 230 V 	 <p>BDD</p>	<p>Junction box with double release mechanism:</p> <ul style="list-style-type: none"> • protrusion dimensions: 50x100x25 mm • protection class: IP ND • for Axial operator
 <p>Illumination light</p>	<p>Illumination light</p> <ul style="list-style-type: none"> • protrusion dimensions: 120x90x90 mm • protection class: IP 65 • power supply: 230 V • 10W power: 930 lumen 		



Automatic operation (trained or untrained users)

In automatic operation, the shutter moves without the need for manual operation by the user (for example, closing with time delay, opening by magnetic loop, etc.). This operating mode can be used for commercial and industrial premises and garages but is not suitable for houses.



Caution in the workplace: 2 flashing spots + markings on the ground are now legally required according to the decree of 21 December 1993.













Caution should be taken if installing automatically operated shutters in places of residence:
 Collective residential buildings must meet specific requirements (acoustics/traffic, etc.) not covered by the European Standard EN 13241 + A2. These specific requirements are not included in our quotes.
 In the case of a collective residence, signage and lighting (area lighting + flashing lights with 2 seconds warning + ground marking) are legally required (Decree of 09 August 2006 relating to the application of Article R.125-3-1 of the Construction and Housing Code).



The necessary safety measures vary according to the products used (see specific chapter for the product concerned), and according to the following criteria:







- The location of the project
 - Outside public areas (within or out of sight of door)
 - In public areas (within or out of sight of door)
- Type of project
 - Industrial or commercial premises, or garages
 - Houses

CONTROLLERS

 <p>BBAI</p>	<p>Wall-mounted impulse button box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 68x68x65 mm • protection class: IP 65 	 <p>BCA</p>	<p>Wall-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x74x55 mm • protection class: IP 54 • number of keys: 2
 <p>BCBA</p>	<p>Wall-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85x85x61 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCE</p>	<p>Flush-mounted key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 90x100x6 mm • flush-mounted dimensions: 74x74x45 mm • protection class: IP 54 • number of keys: 2
 <p>BCBE</p>	<p>Flush-mounted bipolar key switch box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 85x85x10 mm • flush-mounted dimensions: Ø 65x50 mm • protection class: IP 54 • number of keys: 2 • for operating 2 shutters simultaneously 	 <p>BCDA</p>	<p>Wall-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x100x65 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>Transmitter</p>	<p>4-function transmitter (Commerce/Industry):</p> <ul style="list-style-type: none"> • dimensions: 65x32x11 mm • protection class: IP ND • frequency: 433 MHz. 	 <p>BCDE</p>	<p>Flush-mounted key switch and release box:</p> <ul style="list-style-type: none"> • protrusion dimensions: 100x125x6 mm • flush-mounted dimensions: 74x100x60 mm • protection class: IP 54 • number of keys: 2 • for Axial operator
 <p>Receiver</p>	<p>Separate 2-function receiver:</p> <ul style="list-style-type: none"> • protrusion dimensions: 74x132x26 mm • protection class: IP 55 • frequency: 433 MHz • for a 4-function transmitter • power supply: 12 - 24 V 	 <p>Key pad</p>	<p>Wireless, wall-mounted key pad</p> <ul style="list-style-type: none"> • protrusion dimensions: 82x78x31 mm • protection class: IP 65



Automatic operation (trained or untrained users)

CONTROLLERS			
<p>BM</p> 	<p>Magnetic Loop:</p> <ul style="list-style-type: none"> • Loop perimeter: 6 m • protection class: IP 54 	<p>TR</p> 	<p>Road tube:</p> <ul style="list-style-type: none"> • Max. length: 6 m • protection class: IP ND
<p>Sécurinox</p> 	<p>Sécurinox release box with tubular / European cylinder:</p> <ul style="list-style-type: none"> • protrusion dimensions: 45x255x10 mm • flush-mounted dimensions: 34x237x37 mm • protection class: IP 40 • number of keys: 2 • for Axial operator 	<p>BDD</p> 	<p>Junction box with double release mechanism:</p> <ul style="list-style-type: none"> • protrusion dimensions: 50x100x25 mm • protection class: IP ND • for Axial operator
<p>Illumination light</p> 	<p>Illumination light</p> <ul style="list-style-type: none"> • protrusion dimensions: 120x90x90 mm • protection class: IP 65 • power supply: 230 V • 10W power: 930 lumen 	<p>Flashing light</p> 	<p>Flashing light</p> <ul style="list-style-type: none"> • protrusion dimensions: 45x90x40 mm • protection class: IP 54 • multi-voltage: 24 - 230 V



Axosite



NEW-GENERATION SECURITY

- Simple and reliable access control
- Opening / closing without keys for grilles and shutters

Axosite offers:

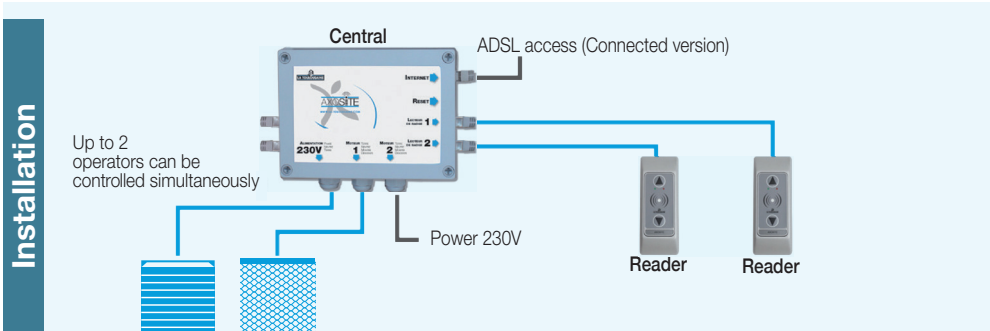
- Specialized innovation in grilles and shutters
- An alternative to key switch boxes, key pads and remote controls
- High-level security for each access point, ensuring the autonomy of the people responsible

Access controlled locally or via web access

Commerce - Shopping centers - Retail outlets

Installation security features

- Systematic identification of users
- Control box located on the inside out of reach of the public
- Tampering with reader does not affect functioning



Configuration

Autonomous version
Controlled locally at the reader with the master badge

Connected version
Control and monitoring via secure online account

www.axosite.com

Use

➤ **RFID key fobs⁽¹⁾**
Up to 200 key fobs

➤ **Can be operated via mobile app⁽²⁾**

Disponible sur
App Store

Google play

➤ **Can be operated via phone⁽²⁾**
From a landline or mobile phone with no communication costs

➤ **Can be operated via the secure online platform⁽²⁾**

www.axosite.com

(1) Radio frequency identification
(2) For the Connected version only

Value for money

- No more keys to replace
- No on-site intervention required to change key pad codes
- Sharing of access controls for multi-site management



Centris veoHz

Radio operator for spring-loaded shaft

With the development of the **Centris veoHz**, La Touloisaine offers innovation for the installer and the user, with an all-in-one solution: operator, automated system and accessories. **In strict compliance with current standards**, this operator for spring-loaded shafts is ideal for shutters as well as roller shutters. Somfy's RTS system offers **user-friendly configuration**, with a platform that is easily navigated by the installer.

SIMPLICITY

- Setting of limit-switches by **remote control**
- No cables
- The **controller** can be positioned in a place of your choosing
- **Intuitive release mechanism** operated via the key switch box
- Reputed **RTS system by SOMFY**

VALUE FOR MONEY

- **Safety micro switches** no longer required
- **1 remote control** included
- **Cable coverings** no longer required
- **Saves time** during installation
- **No safety device** required



SECURITY

- Detection of **lock activation**
- **Can be controlled remotely** in sight of closing
- Inaccessible **controller**
- Inaccessible **programming**
- **Hold to run** for descent

COMFORT

- **Remote controlled**
- **Partial opening**
- **Limit-switches** can be adjusted after configuration
- Control of **several shutters** using the **same remote control**
- Up to **12 remote controls** for the same shutter



Control box and release mechanism veoHz



Remote control TSA 3B veoHz

CHARACTERISTICS

- **Spring-loaded shaft**
 - Available with all of our standard spring-loaded shafts
 - 60 mm tube
 - 220 mm winding
 - 2 curved profiles (minimum)
- **Automated operation**
 - RTS system by Somfy
 - 434 Hz
 - 100% Radio
- **Controller**
 - 1 remote control **included**
 - Additional remote controls
 - Wall-mounted remote control
 - Wall-mounted support
 - Key switch radio release box

TYPE OF OPERATOR	VOLTAGE (V)	POWER (W)	CURRENT (A)	POWER SUPPLY	PROTECTION CLASS	ROTATIONAL SPEED (No RT/MIN)	NB OF CYCLES* PER DAY	TORQUE (Nm)
Axial II red veoHz	230 mono	300	1.3	3 x 2.5	IPX4	10	15	75
Axial III yellow veoHz	230 mono	360	1.6	3 x 2.5	IPX4	10	15	100
Axial III gray veoHz	230 mono	450	1.6	3 x 2.5	IPX4	10	15	140

* 1 cycle = 1 ascent and 1 descent