



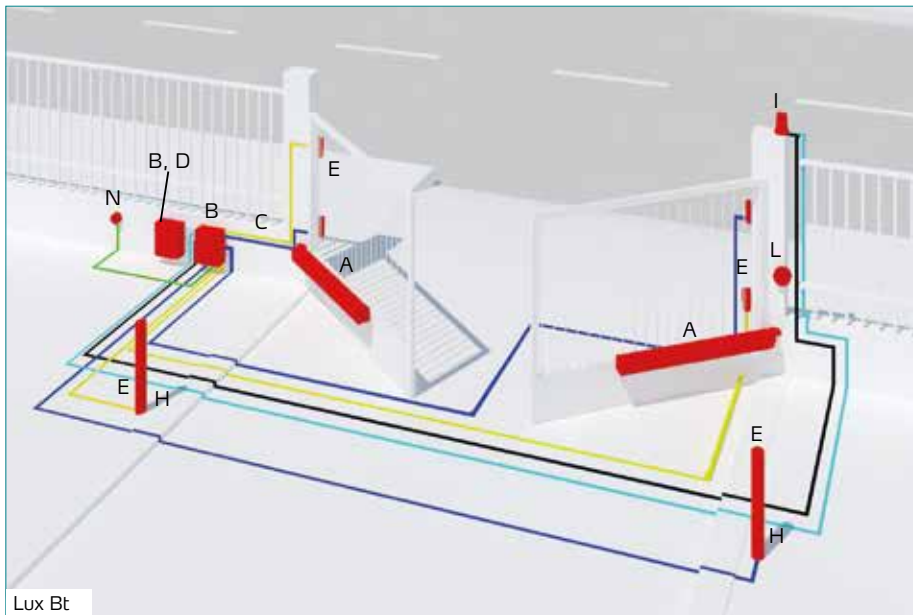
Hydraulic automation systems for swing gates

Guide to choosing

HYDRAULIC AUTOMATION SYSTEMS FOR SWING GATES

Operator type	Gate leaf length	Max Leaf	Maximum angle	Voltage	Frequency of use	Kits	Operator	PLUS
swing gates with underground hydraulic operator	1.8m	800kg	130°	230V	very intensive	-	SUB DX	very intensive
						-	SUB SX	very intensive
			-			SUB EG DX	very intensive	
			-			SUB EG SX	very intensive	
			-			SUB R DX	Slowdown	
			-			SUB R SX	Slowdown	
	2.5m	180°	130°	-		SUB R WINTER DX	Extremely low temperatures	
				-		SUB R WINTER SX	Extremely low temperatures	
		120°	-	SUB G DX		very intensive		
			-	SUB G SX		very intensive		
	3.5m	130°	-	SUB ER DX		Slowdown		
			-	SUB ER SX		Slowdown		
		120°	-	SUB E R WINTER SX		Extremely low temperatures		
			-	SUB BT		D-Track		
		180°	-	SUB R UL/CSA DX		Slowdown		
			-	SUB E DX		very intensive		
-	SUB E SX	very intensive						
-	SUB EL DX	very intensive						
-	SUB EL SX	very intensive						
-	SUB G UL/CSA DX	very intensive						

hydraulically operated swing gates	1.8m	180kg	112°	230V	Semi-intensive	● KIT ORO	Compact size
	2m	300kg	123°		very intensive	● KIT ORO FRA	Compact size
						- LUX	Reversible
						- LUX SA	Reversible
						- LUX BA	Reversible
						- LUX R2B	Reversible
						- LUX WINTER	Extremely low temperatures
						- LUX 2B WINTER	Extremely low temperatures
						- LUX B	Locking on closure
						- LUX 2B	Locking on closure/opening
						- LUX 2B UL/CSA 120V	
						- LUX R 2B SN2	Locking on closure/opening
	- LUX R 2B 25N UL/CSA	Locking on closure/opening					
	- LUX FC 2B	Locking on closure/opening					
	- LUX FC 2B UL/CSA	Locking on closure/opening					
	2.2m	200kg	112°	24V	Semi-intensive	- GIUNO ULTRA BT A20	Magnetic limit switches
	2.3m					● GIUNO ULTRA BT A20 KIT	Magnetic limit switches
	2.5m	300kg	123°	230V	very intensive	- LUX R	Reversible
						- LUX R5N2	Reversible
	3.5m	500kg	130°	230V	very intensive	- LUX MB	Locking on closure
						● KIT LUX MB	Locking on closure
	4m	800kg	123°	230V	very intensive	- ORO E	Compact size
	4.5m					- LUX GV	Reversible
	5m	500kg	112°	230V	very intensive	- LUX GV-2B	Reversible
- LUX GV-B						Reversible	
7m	500kg	123°	230V	very intensive	- LUX GV-R	Reversible	
					- LUX L	Reversible	
5m	500kg	123°	230V	very intensive	- LUX LR	Reversible	
					- P4,5	Closing slowdown	
7m	500kg	123°	230V	very intensive	- P4,5 WINTER	Extremely low temperatures	
					- P4,5 UL/CSA	Closing slowdown	
5m	800kg	130°	24V	Semi-intensive	- LUX G	Reversible	
					- GIUNO ULTRA BT A50	Magnetic limit switches	
7m	500kg	123°	230V	very intensive	- LUX G WINTER	Extremely low temperatures	
					- P7	Closing slowdown	
5m	800kg	130°	24V	Semi-intensive	- P7 WINTER	Extremely low temperatures	
					- P7 UL/CSA	Closing slowdown	



Lux Bt

- A Operator
 - B Control unit
 - C Backup Batteries
 - D Receiver
 - E Photocell
 - H Post
 - I Flashing Beacon
 - L Control system (key selector switch, keypad, badge reader)
 - N Junction box
 - O Solar panel
- 2x1.5
 - 3x1.5
 - RG 58
 - 5x1
 - 2x1



Complete Systems P. 248

accessories P. 238

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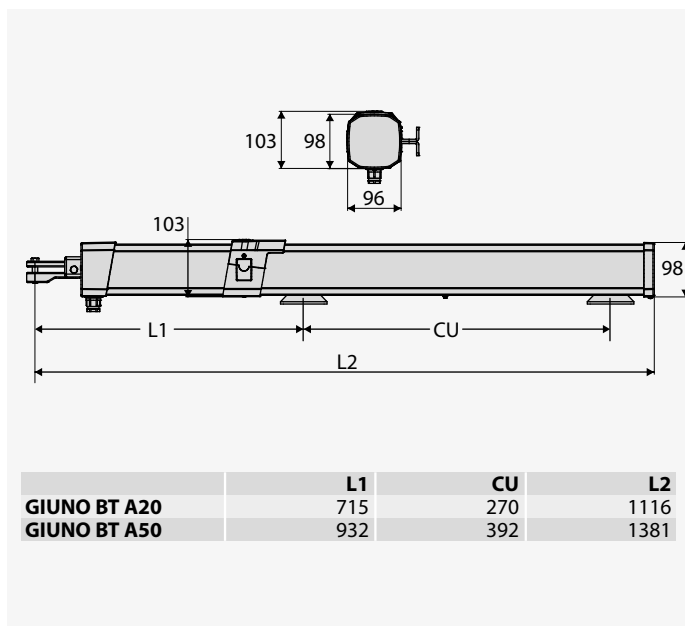


Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application.

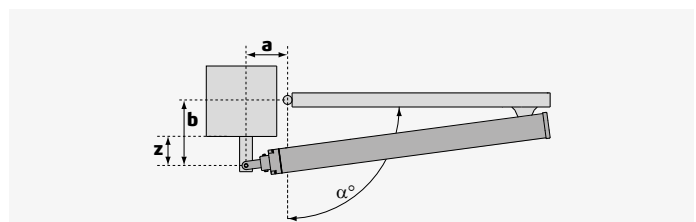
Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg.

Anti-crushing safety guaranteed thanks to the exclusive D-Track system

DIMENSIONS (mm)



INSTALLATION DIMENSIONS



		GIUNO ULTRA BT A 20								
		a (mm)								
z > 45 (mm)		90	100	110	125	135	145	155	165	175
b (mm)	90					110	104	98	95	91
	100					105	99	95	91	88
	110				108	100	95	91	88	
	125				99	93	89	86		
	135			99	93	89				
	145		95	97	89					
	155		95	91						
	165	91	91	86						
	175	91	85							α°

		GIUNO ULTRA BT A 50								
		a (mm)								
z > 45 (mm)		115	135	155	175	195	215	235	255	275
b (mm)	115				110	110	108	101	96	92
	135			106	106	110	1025	96	92	
	155		107	106	108	103	96	91	87	
	175		103	107	106	96	91	86		
	195		104	106	97	90	86			
	215		101	99	90	85				
	235	96	101	90	84					
	255	95	89	83						
	275	88								α°

TECHNICAL FEATURES

	GIUNO ULTRA BT A20	GIUNO ULTRA BT A50
Protection rating	IP55	IP55
Max Leaf	300 kg	800 kg
Gate leaf length	2 m	5 m
Motor power supply	24 V	24 V
Power input	300 W	300 W
Slowdown	yes	yes
Impact reaction	D-Track	D-Track
Frequency of use	very intensive	very intensive
Environmental conditions	from -20 °C to 60 °C	from -20 °C to 60 °C

Code	Name		Description	
P935105 00001	GIUNO ULTRA BT A20		Hydraulic operator with 24 V for hinged wings up to 2 m. 300 kg in weight and use very intensive. Manoeuvre time 14 sec. magnetic Limit switch.	 U-Link
P935106 00001	GIUNO ULTRA BT A50		Hydraulic operator with 24 V for hinged wings up to 5 m. 800 kg in weight and use very intensive. Manoeuvre time 20 sec. magnetic Limit switch.	 U-Link
R935337 00001	GIUNO ULTRA BT A20 KIT		Complete kit for swing gates with hydraulic operator with 24 V for wings up to 2 m. 300 kg in weight and use very intensive. Manoeuvre time 14 sec. Limit switch magnetic	 U-Link

THALIA P : Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems

D113747 00002 - THALIA P - Recommended



- Application: control panel with display for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for very-complex installations
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 240W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system , slowdown during opening and closing and electronic self-learning
- Main features: automatic closing, rapid closing, partial opening, operation with deadman feature, direct connection powered solenoid lock and electromagnet, direct connection edge 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX, LIBRA, LIBRA R, LIBRA MA R

RECOMMENDED ACCESSORIES

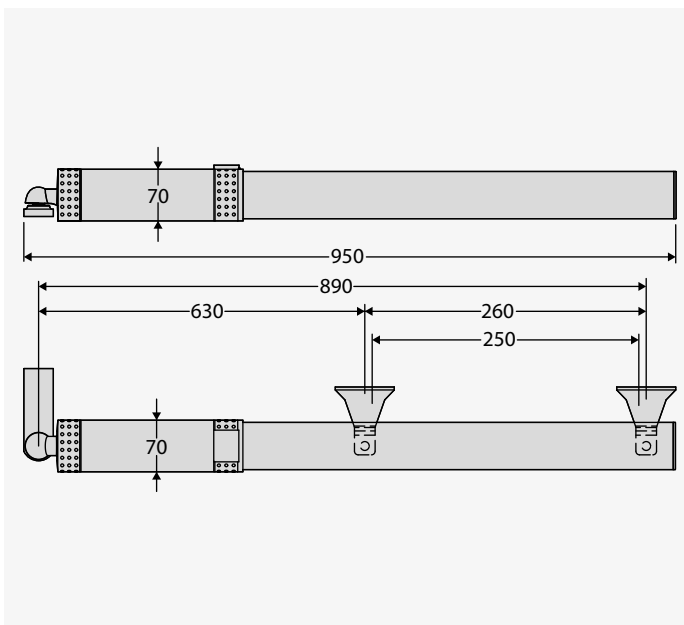
	D113745 00002 - THALIA Control panel with display for one or two 24V electromechanical operators for swing gates		D113747 00002 - THALIA P Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems
	N733426 - ARB LUX Adjustable front and rear bracket for LUX operator		N733474 - ARB LUX G Adjustable front and rear bracket for LUX G operator
	N999443 - PL LX BT Anchor plate for welding the mountings to masonry pillars for LUX BT		P125020 - BBT BAT Set of backup batteries for THALIA and THALIA P
	N999417 - CABLE LX BT Cable 1603 for PHOBOS/IGEA - 100m coil		



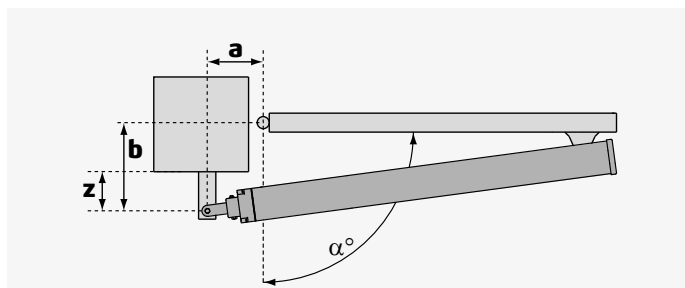
Extremely compact and sturdy hydraulic operators suitable for residential and small condominium use. Capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 200 kg. Available in both reversible and irreversible versions. Maximum precision in force control guaranteed by by-pass valves.

HYDRAULIC AUTOMATION SYSTEMS FOR SWING GATES

DIMENSIONS (mm)



INSTALLATION DIMENSIONS



		ORO - ORO E								
		a (mm)								
z > 40 (mm)		80	90	100	110	120	130	140	150	160
b (mm)	80					112	104	99	94	91
	90					105	99	94	91	88
	100					100	94	91		
	110					95	89	87		
	120			103	95	90				
	130		106	95	90	86				
	140		96	89						
150	97	89	84							
160	88	83	80						α°	

TECHNICAL FEATURES

	ORO E	ORO
Control unit	ALCOR N	ALCOR N
Motor power supply	230 V	230 V
Power input	240 W	240 W
Useful rod stroke	250 mm	250 mm
Maximum angle	112 °	112 °
Slowdown	no	no
Impact reaction	Hydraulic clutch	Hydraulic clutch
Locking	solenoid lock	hydraulic closing
Release	reversible	triangle key
Environmental conditions	from -10 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP55	IP55



Code	Name	Description
P935058 00001	ORO E	Reversible hydraulic operator for hinged leaves up to 2.5 m and weight 200 kg, use semi-intensive. Manoeuvre time 27 sec.
R935222 00002	KIT ORO	Kit for swing gates up to 1.8 m and 180 kg in weight with irreversible hydraulic operators for semi-intensive use. Cycle time 20 sec.
R935210 00011	KIT ORO FRA	Kit for swing gates up to 1.8 m and 180 kg in weight with irreversible hydraulic operators for semi-intensive use. Cycle time 20 sec.

ALCOR N : Control panel with dip switches and potentiometers for one or two 230V/300W operators for swing gates

D113706 00002 - ALCOR N - Recommended



- Compatibility: ALCOR SD
- Application: control panel for one or two swing gate operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 300W max each operator
- Main features: removable terminal blocks, settings controlled by potentiometers, fault signalling LEDs and incorporated dual channel receiver
- Main functions: stays locked when closed, 3/4 step logic, partial opening, separate opening/closing

RECOMMENDED ACCESSORIES

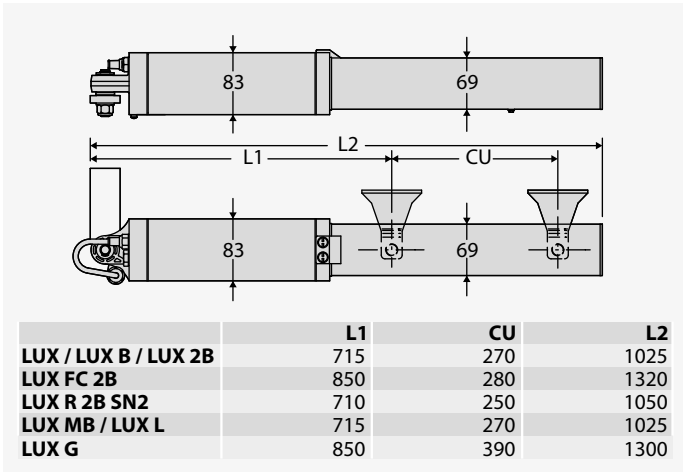
	D113680 00002 - ALPHA SD Universal control panel with potentiometers for one 230V/500W single-phase operator		D113833 00002 - RIGEL 6 220-230V 50/60HZ new Universal control panel with display for one or two 230V - 650+650W operators
	N733424 - ARB ORO Adjustable front and rear brackets for ORO operator		D730178 - PLE Anchor plate for welding the mountings to masonry pillars for LUX and PHOBOS N operators
	N999131 - NAT Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath		D111013 - ME Control board for 12Vac solenoid lock for 230V automation systems

			control units P. 230	activation sensors automatic doors and security P. 242
			accessories for control units P. 238	signalling devices P. 243
			set of batteries for control units P. 238	safety devices - Photocells and accessories P. 243
			expansion boards P. 239	safety devices - Sensitive edges P. 245
			software P. 240	rubber profiles P. 245
			receivers P. 240	solenoid locks P. 246
			transmitters P. 241	release systems P. 246
			control devices P. 241	

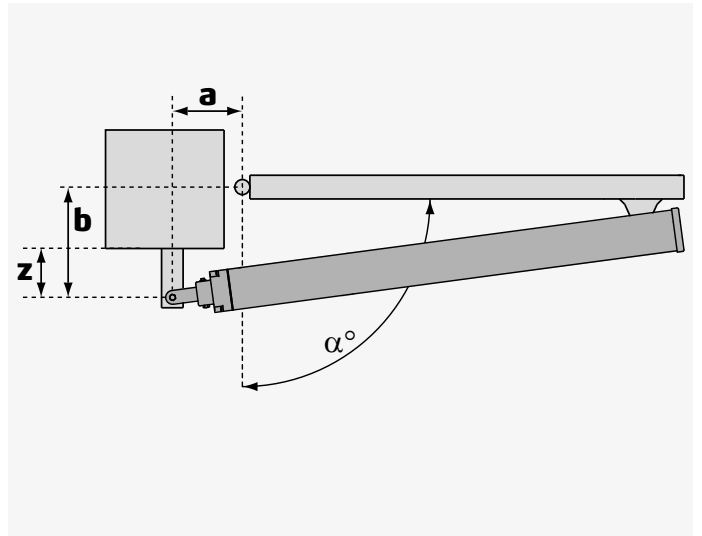


Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application.
 Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg.
 Available in both reversible and irreversible versions, with maximum precision in torque control guaranteed by by-pass valves.

DIMENSIONS (mm)



INSTALLATION DIMENSIONS



z > 45 (mm)	a (mm)			
	110	120	130	140
110			112	104
120		117	105	99
130		107	99	94
140	112	100	94	90
150	102	94	90	
160	94	89		

z > 45 (mm)	a (mm)									
	80	90	100	110	120	135	145	155	165	175
90						116	108	102	98	94
100						110	103	98	94	91
110					123	104	99	94	91	
120					111	99	94	91		
135				111	100	90				
145				102	94					
155			104	95	90					
165			95	90						
175		95	88							
185	96	88								alpha

z > 45 (mm)	a (mm)								
	95	115	135	155	175	195	215	235	255
95						128	115	107	102
115						119	108	102	97
135					130	111	102	97	93
155					114	103	97	92	88
175					104	96	91	87	
195					107	96	90		
215					96	89			
235			96		88				
255	105	96	87						
276	96	85							
295	94								alpha

z > 45 (mm)	a (mm)				
	105	115	125	135	145
105			100	95	91
115		101	95	90	
125		95	90		
135	95	90			
145	89				
155	84				alpha

TECHNICAL FEATURES

	LUX	LUX SA	LUX WINTER	LUX R	LUX RSN2	LUX B
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W
Slowdown	no	no	no	no	no	no
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C	from -10 °C to 60 °C	from -30 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP57	IP57	IP57	IP57	IP57	IP57



	LUX BA	LUX 2B	LUX 2B WINTER	LUX R2B	LUX R 2B SN2	LUX FC 2B
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	280 W
Slowdown	no	no	no	no	yes	no
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C	from -10 °C to 60 °C	from -30 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP57	IP57	IP57	IP57	IP57	IP57

	LUX R 2B 25N UL/CSA	LUX FC 2B UL/CSA	LUX MB	LUX GV	LUX GV-2B	LUX GV-B
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	280 W	250 W	250 W	250 W	250 W
Slowdown	yes	no	no	no	no	no
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP57	IP57	IP57	IP57	IP57	IP57

	LUX L	LUX LR	LUX G	LUX G WINTER	LUX GV-R	LUX 2B UL/CSA 120V
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W
Slowdown	no	no	no	no	no	no
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP57	IP57	IP57	IP57	IP57	IP57



control units
 accessories for control units
 set of batteries for control units
 expansion boards
 software
 receivers
 transmitters
 control devices

P. 230 activation sensors automatic doors and security
 P. 238 signalling devices
 P. 238 safety devices - Photocells and accessories
 P. 239 safety devices - Sensitive edges
 P. 240 rubber profiles
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Code	Name	Description
P935009 00001	LUX	Hydraulic operator reversible for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935025 00001	LUX SA	Hydraulic operator reversible for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935009 00025	LUX WINTER	Hydraulic operator reversible for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935044 00001	LUX R	Hydraulic operator reversible for hinged leaves up to 2.2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935044 00002	LUX RSN2	Hydraulic operator reversible for hinged leaves up to 2.2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935010 00001	LUX B	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: hydraulic closing
P935027 00001	LUX BA	Hydraulic operator reversible for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935011 00001	LUX 2B	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: open/close hydraulics
P935011 00028	LUX 2B WINTER	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: open/close hydraulics
P935046 00001	LUX R2B	Hydraulic operator reversible for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935046 00002	LUX R 2B SN2	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 250 mm, manoeuvre time 16+slowdown sec and maximum opening angle 101 °. Locking system: open/close hydraulics
P935039 00001	LUX FC 2B	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 280 mm, manoeuvre time 17 sec and maximum opening angle 117 °. Locking system: open/close hydraulics
P935046 00004	LUX R 2B 2SN UL/CSA	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 250 mm, manoeuvre time 16+slowdown sec and maximum opening angle 101 °. Locking system: open/close hydraulics
P935039 00002	LUX FC 2B UL/CSA	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 280 mm, manoeuvre time 17 sec and maximum opening angle 117 °. Locking system: open/close hydraulics
P935035 00001	LUX MB	Hydraulic operator triangle key for hinged leaves up to 2.3 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 23 sec and maximum opening angle 123 °. Locking system: hydraulic closing
P935014 00001	LUX GV	Hydraulic operator reversible for hinged leaves up to 3.5 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935014 00005	LUX GV-2B	Hydraulic operator reversible for hinged leaves up to 3.5 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935014 00002	LUX GV-B	Hydraulic operator reversible for hinged leaves up to 3.5 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935012 00001	LUX L	Hydraulic operator reversible for hinged leaves up to 4 m and 500 kg in weight. Useful travel 270 mm, manoeuvre time 33 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935049 00001	LUX LR	Hydraulic operator reversible for hinged leaves up to 4 m and 500 kg in weight. Useful travel 270 mm, manoeuvre time 33 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935013 00001	LUX G	Hydraulic operator reversible for hinged leaves up to 5 m and 800 kg in weight. Useful travel 390 mm, manoeuvre time 48 sec and maximum opening angle 130 °. Locking system: solenoid lock
P935013 00022	LUX G WINTER	Hydraulic operator reversible for hinged leaves up to 5 m and 800 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock
P935050 00001	LUX GV-R	Hydraulic operator reversible for hinged leaves up to 3.5 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: solenoid lock

R935217 00002	KIT LUX MB	Kit for swing gates up to 2.3 m, 300 kg in weight. Hydraulic operators with useful travel 270 mm, max angle 123 °, locking hydraulic closing and release triangle key. Cycle time 23 sec. Power input 250 W.
P935011 00013	LUX 2B UL/CSA 120V	Hydraulic operator triangle key for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 sec and maximum opening angle 123 °. Locking system: open/close hydraulics

ALCOR N : Control panel with dip switches and potentiometers for one or two 230V/300W operators for swing gates

D113706 00002 - ALCOR N - Recommended



- Compatibility: ALCOR SD
- Application: control panel for one or two swing gate operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 300W max each operator
- Main features: removable terminal blocks, settings controlled by potentiometers, fault signalling LEDs and incorporated dual channel receiver
- Main functions: stays locked when closed, 3/4 step logic, partial opening, separate opening/closing

RECOMMENDED ACCESSORIES

	D113680 00002 - ALPHA SD		D113833 00002 - RIGEL 6 220-230V 50/60HZ new
	Universal control panel with potentiometers for one 230V/500W single-phase operator		Universal control panel with display for one or two 230V - 650+650W operators
	N733426 - ARB LUX		N733474 - ARB LUX G
	Adjustable front and rear bracket for LUX operator		Adjustable front and rear bracket for LUX G operator
	D730178 - PLE		N999131 - NAT
	Anchor plate for welding the mountings to masonry pillars for LUX and PHOBOS N operators		Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath
	D111013 - ME		D610180 - CLS
	Control board for 12Vac solenoid lock for 230V automation systems		Triangular release key l=52mm



Complete Systems P. 248



accessories P. 238

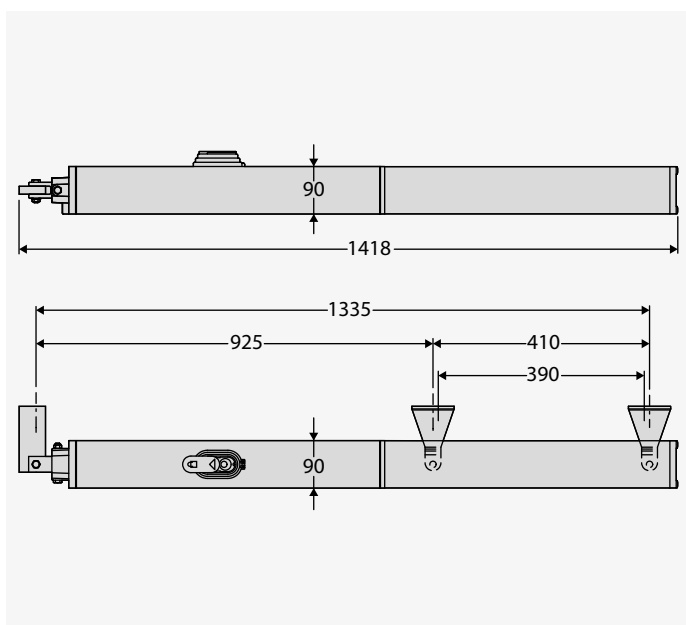
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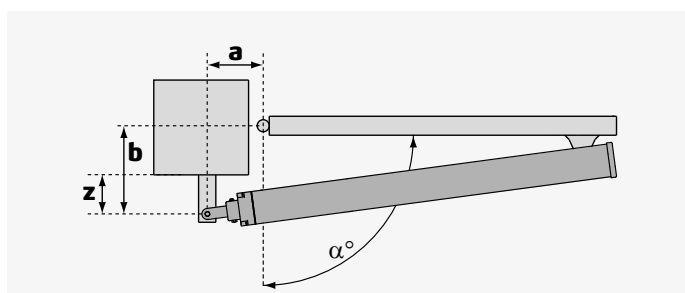


Extremely sturdy and reliable hydraulic operators for industrial and condominium use. They can automate swing gate leaves up to 7m wide and weighing up to 500kg. Smooth, silent gate movements are guaranteed by the extremely high-performance hydraulic system and the closing slowdown. Maximum precision in traction and thrust force control is guaranteed by the by-pass valve system.

DIMENSIONS (mm)



INSTALLATION DIMENSIONS



		P4,5 - P7										
		a (mm)										
z > 50 (mm)		120	135	150	165	180	195	210	225	240	255	270
120							117	109	103	99	95	92
135						123	111	104	99	95	92	
150						114	105	99	95	92		
165					123	107	100	95	91			
180					109	100	95	91				
195			118		101	95	90					
210			103	95	90							
225		106	95	89								
240		95	89									
255	95	88										
270	88											α°

TECHNICAL FEATURES

	P4,5	P4,5 WINTER	P4,5 UL/CSA	P7	P7 WINTER	P7 UL/CSA
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	120 V	230 V	230 V	120 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W
Maximum angle	123 °	123 °	123 °	123 °	123 °	123 °
Slowdown	during closing	during closing	during closing	during closing	during closing	during closing
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	solenoid lock	solenoid lock	solenoid lock	solenoid lock	solenoid lock	solenoid lock
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Release	reversible	reversible	reversible	reversible	reversible	reversible
Environmental conditions	from -10 °C to 60 °C	from -30 °C to 60 °C	from -10 °C to 60 °C	from -10 °C to 60 °C	from -30 °C to 60 °C	from -10 °C to 60 °C
Protection rating	IP55	IP55	IP55	IP55	IP55	IP55

Code	Name	Description
P935061 00001	P4,5	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time 28+slowdown sec. Useful travel 390 mm. max angle 123 °.
P935061 00004	P4,5 WINTER	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time 28+slowdown sec. Useful travel 390 mm. max angle 123 °.
P935061 00003	P4.5 UL/CSA	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time 28+slowdown sec. Useful travel 390 mm. max angle 123 °.
P935060 00001	P7	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown sec. Useful travel 390 mm. max angle 123 °.
P935060 00004	P7 WINTER	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown sec. Useful travel 390 mm. max angle 123 °.
P935060 00003	P7 UL/CSA	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown sec. Useful travel 390 mm. max angle 123 °.





RIGEL 6 220-230V 50/60HZ : Universal control panel with display for one or two 230V - 650+650W operators

D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended



- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
- Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4

RECOMMENDED ACCESSORIES

	D113833 00002 - RIGEL 6 220-230V 50/60HZ 		D113680 00002 - ALPHA SD
	Universal control panel with display for one or two 230V - 650+650W operators		Universal control panel with potentiometers for one 230V/500W single-phase operator
	D113706 00002 - ALCOR N		N999131 - NAT
	Control panel with dip switches and potentiometers for one or two 230V/300W operators for swing gates		Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath
	D111013 - ME		
	Control board for 12Vac solenoid lock for 230V automation systems		



24 V



d-track



er ready



ee link



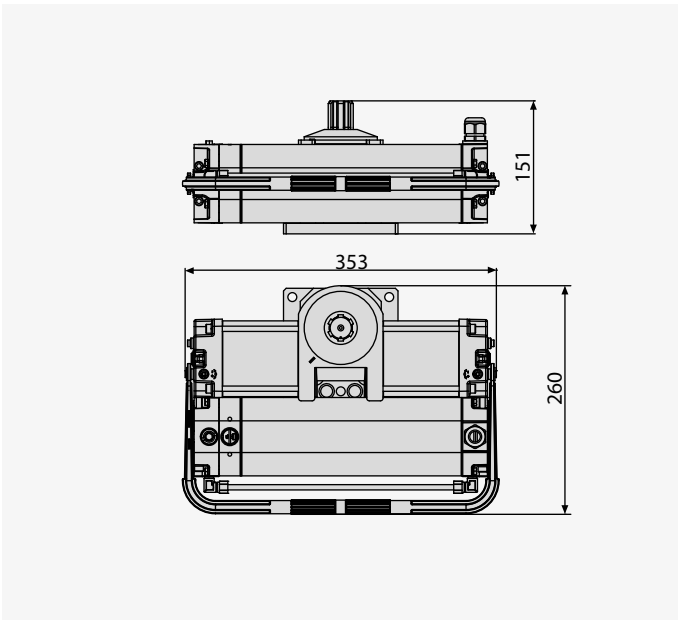
U-Link



Low voltage hydraulic operator for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, they can automate swing gate leaves up to 2.5m wide and weighing up to 800kg.

Fitted with mechanical stops and virtual encoder, guaranteeing maximum anti-crushing safety thanks to the electronic slowdown and D-Track system

DIMENSIONS (mm)



TECHNICAL FEATURES

	SUB BT
Control unit	THALIA P
Motor power supply	24 V
Cycle time	13 sec
Slowdown	yes
Impact reaction	D-Track
Locking	open/close hydraulics
Release	lever or lever with personalised key
Frequency of use	very intensive
Environmental conditions	from -20 °C to 60 °C
Protection rating	IP67
Maximum angle	120 °

Code	Name	Description	
P930123 00001	SUB BT	Low voltage, in-ground irreversible hydraulic operator for hinged leaves up to 2.5 m. weight 800 kg.	U-Link

THALIA P : Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems

D113747 00002 - THALIA P - Built-In



- Application: control panel with display for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for very-complex installations
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 240W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main features: automatic closing, rapid closing, partial opening, operation with deadman feature, direct connection powered solenoid lock and electromagnet, direct connection edge 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX, LIBRA, LIBRA R, LIBRA MA R

RECOMMENDED ACCESSORIES

	N733480 00001 - FCS BT Foundation box for SUB BT series operators		N733392 - SCC Release for ELI 250N and SUB BT with lever key.
	N733502 - SCP Release for ELI 250 and SUB BT with personal key.		P125020 - BBT BAT Set of backup batteries for THALIA and THALIA P

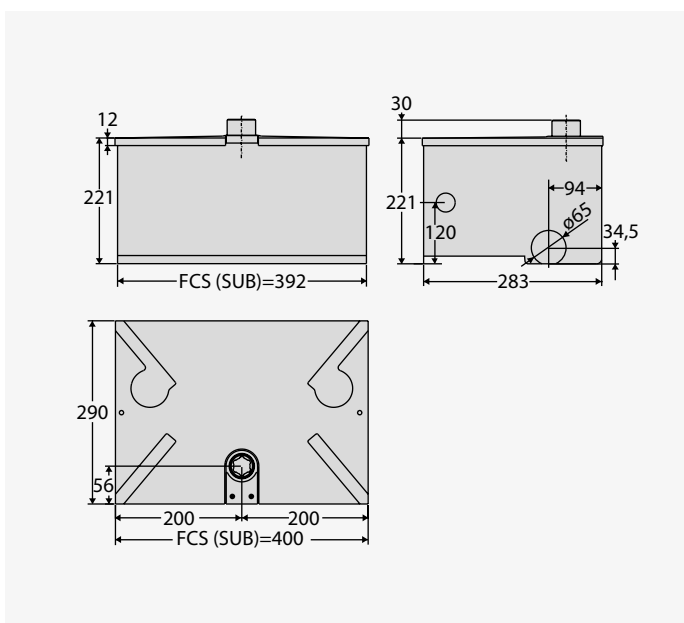


Complete range of low voltage underground hydraulic operators for very intensive use, suitable for any type of residential, industrial or multi-residence application.

Compact and sturdy, capable of automating swing gate leaves up to 3.5 metres wide and weighing up to 800 kg.

Available in reversible and non-reversible versions, with or without slowdown during opening and closing and with opening angles up to 180°.

DIMENSIONS (mm)



TECHNICAL FEATURES

	SUB DX	SUB SX	SUB R DX	SUB R SX	SUB R UL/ CSA DX	SUB E DX	SUB E SX	SUB R WINTER DX	SUB R WINTER SX	SUB E R WINTER SX
Max Leaf	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	120 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W	250 W	250 W	250 W	250 W
Maximum angle	130 °	130 °	130 °	130 °	130 °	130 °	130 °	130 °	130 °	130 °
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	open/close hydraulics	solenoid lock
Release	non reversing	non reversing	non reversing	non reversing	non reversing	non reversing	non reversing	non reversing	non reversing	reversible
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C							from -30 °C to 60 °C		
Protection rating	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67



	SUB ER DX	SUB ER SX	SUB EL DX	SUB EL SX	SUB G DX	SUB G SX	SUB G UL/ CSA DX	SUB EG DX	SUB EG SX
Max Leaf	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg
Control unit	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6	ALCOR N. RIGEL 6
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V	120 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W	250 W	250 W	250 W
Maximum angle	130 °	130 °	130 °	130 °	180 °	180 °	180 °	130 °	130 °
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	solenoid lock				open/close hydraulics				
Release	reversible	reversible	reversible	reversible	non reversing	non reversing	non reversing	non reversing	non reversing
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Environmental conditions	from -10 °C to 60 °C			from -10 °C to 60 °C					
Protection rating	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

Code	Name	Description
P930026 00001	SUB DX	In-ground hydraulic operator non reversing for hinged leaves up to 1.8 m. Manoeuvre time 24 sec.
P930026 00002	SUB SX	In-ground hydraulic operator non reversing for hinged leaves up to 1.8 m. Manoeuvre time 24 sec.
P930012 00005	SUB R DX	In-ground irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown sec Right operator.
P930012 00006	SUB R SX	In-ground irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown sec Left operator.
P930012 00007	SUB R UL/CSA DX	Underground hydraulic operator for swing gates up to 3.5 m with slowdown. Cycle time 14+slowdown sec.
P930012 00009	SUB R WINTER DX	Underground hydraulic operator for swing gates up to 1.8 m with slowdown. Cycle time 14+slowdown sec.
P930012 00010	SUB R WINTER SX	Underground hydraulic operator for swing gates up to 1.8 m with slowdown. Cycle time 14+slowdown sec.
P930009 00004	SUB E DX	Underground hydraulic operator for swing gates up to 3.5 m. Cycle time 24 sec.
P930009 00005	SUB E SX	Underground hydraulic operator for swing gates up to 3.5 m. Cycle time 24 sec.
P930013 00007	SUB ER DX	In-ground reversible hydraulic operator for swing gates up to 2.5 m with slowdown. Maneuver time 14+slowdown sec Right operator.
P930013 00008	SUB ER SX	In-ground reversible hydraulic operator for swing gates up to 2.5 m with slowdown. Maneuver time 14+slowdown sec Left operator.
P930013 00012	SUB E R WINTER SX	Underground hydraulic operator for swing gates up to 2.5 m with slowdown. Cycle time 14+slowdown sec.
P930014 00005	SUB EL DX	In-ground reversible hydraulic operator for hinged leaves up to 3.5 m Manoeuvre time 33 sec.
P930014 00006	SUB EL SX	In-ground hydraulic operator reversible for hinged leaves up to 3.5 m. Manoeuvre time 33 sec.
P930010 00005	SUB G DX	In-ground irreversible hydraulic operator for swing gates up to 1.8 m. Maneuver time 33 sec. Right operator.
P930010 00006	SUB G SX	In-ground irreversible hydraulic operator for swing gates up to 1.8 m Maneuver time 33 sec Left operator.



new


 Complete
Systems P. 248

 accessories
P. 238

control units
accessories for control units
set of batteries for control units
expansion boards
software
receivers
transmitters
control devices

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activation sensors automatic doors and security
signalling devices
safety devices - Photocells and accessories
safety devices - Sensitive edges
rubber profiles
solenoid locks
release systems

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phase out



P930010 00007	SUB G UL/CSA DX	Underground hydraulic operator for swing gates up to 3.5 m. Cycle time 33 sec.
P930011 00005	SUB EG DX	Underground hydraulic operator for swing gates up to 1.8 m. Cycle time 24 sec.
P930011 00006	SUB EG SX	Underground hydraulic operator for swing gates up to 1.8 m. Cycle time 24 sec.




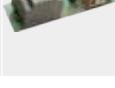
RIGEL 6 220-230V 50/60HZ : Universal control panel with display for one or two 230V - 650+650W operators

D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
- Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4



RECOMMENDED ACCESSORIES

	D113833 00002 - RIGEL 6 220-230V 50/60HZ 		D113680 00002 - ALPHA SD
	Universal control panel with display for one or two 230V - 650+650W operators		Universal control panel with potentiometers for one 230V/500W single-phase operator
	D113706 00002 - ALCOR N		N733066 00003 - FCS DX
	Control panel with dip switches and potentiometers for one or two 230V/300W operators for swing gates		Foundation box designed for fitting the SUB right-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf
	N733066 00004 - FCS SX		N733066 00001 - CPS DX
	Foundation box designed for fitting the SUB left-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf		CPS DX foundation box designed for fitting the SUB right-hand operator
	N733066 00002 - CPS SX		N733092 - CPS G
	CPS SX foundation box designed for fitting the SUB left-hand operator		Foundation box designed for fitting the SUB G operator
	N728002 - BSC		D111013 - ME
	Arm for installation of SUB out of the gate axis		Control board for 12Vac solenoid lock for 230V automation systems