

# CATALOGUE 2017



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make your world safer



CallisST\_54.03 - 31 marzo, 2017 9:39 m.

Manufacture Automation Company is the result of the fusion between Mezzanotti Fausto Automazioni and MAC.

The company MAC srl operates in the field of automations from more than 30 years, producing products for any kind of customer and any environment.

It produces a vast range of products: from bollards, to road blockers and tyre killers; we're also introduced in many other fields for example in the field of urban fabric with our electrified manholes and our pedestrian signalling system.

Our innovative products are built respecting the right relationship between price and quality; every single creation must respect and satisfy all the customer's needs, ensuring a high durability during the years.

Seriousness, passion, innovation and, above all, efficiency and competence acquired over the years, lead our firm within the international reality, bringing its experience anywhere!

The deep company knowledge of the field enables MAC srl to ensure its customers the direct contact Firm-Customer, at all stages.

All it's made in tight collaboration with the customer: its needs become our challenge.

Our company's policy, is focused on the quality and the continuous improvement of the products; for this reason each product we build is completely hot galvanized, this treatment allows to increase the life of the product.

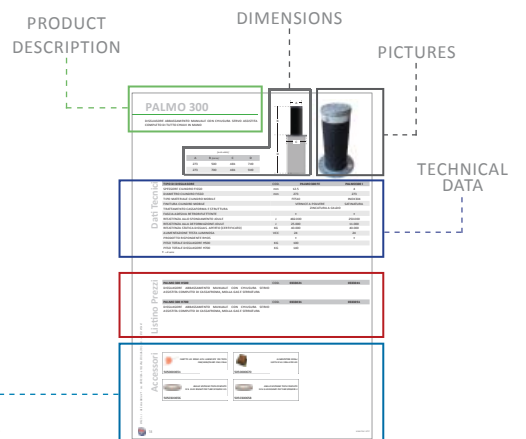
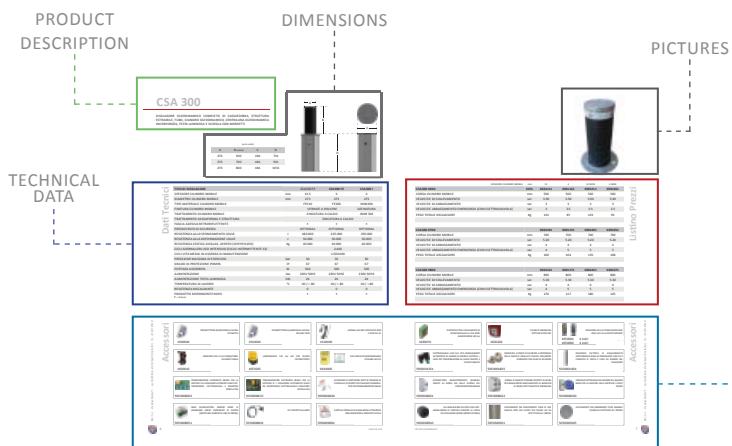
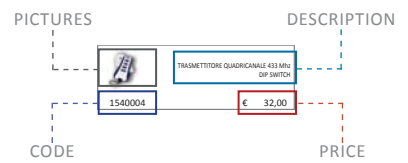
We have also many trademarks, the trademarks allow us to improve the security of our products: the sensitive head, the magnetic tracer, the emergency sounds recognizer device etc.

With our trademarks we can customize the product directly on the place, without causing big changes on the structure of the product and losing many time.

MAC is always at disposal of its customers in order to find a made to measure solution to use our products as best as they can, and support the customer with the best after-sale service.

Our staff is always available to show and describe the products exposed in our showroom.

We are pleased to satisfy all your curiosity and/or expectations and advising the product fittest to your needs.



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## Fix Bollards

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## Road Blocker

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## Tyre Killer

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## Automatic Bollards

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# CSA 300

THE CSA AUTOMATIC BOLLARDS WITH HYDRAULIC MOTION, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- HYDRAULIC MOVEMENT, IT THE MOST RELIABLE TECHNOLOGY FOR INTENSE USE AND IT IS OF COURSE, THE BEST SOLUTION INDEPENDENTLY FROM ALL TEMPERATURES AND WEATHER CONDITIONS.
- BUILT-IN HYDRAULIC PUMP FOR A SIMPLE INSTALLATION OF THE BOLLARD.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)















## Technical Data

TYPE OF BOLLARD		CSA300 Fe	CSA300 Fe	CSA300 I
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm		273	
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
SAFETY PRESSOSTAT IP54		OPTIONAL	OPTIONAL	OPTIONAL
RESISTANCE TO BREAKING	J	482.000	225.000	250.000
RESISTANCE TO DEFORMATION (JOULE)	J	50.000	30.000	30.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg	40.000	40.000	40.000
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000	
MAXIMUM PRESSURE OF WORKING	bar	30	30	30
PROTECTION GRADE OF THE PUMP	IP	67	67	67
POWER ABSORBED	W	500	500	500
POWER SUPPLY	Vac	230V 50Hz	230V 50Hz	230V 50Hz
BRIGHT HEAD POWER SUPPLY	Vdc	24	24	24
WORKING TEMPERATURE	°C	-20 / + 80	-20 / + 80	-20 / + 80
ELECTRICAL HEATER DEVICE IP67		0	0	0
SELF CERTIFIED ROHS PRODUCT		•	•	•
ELECTRICAL VALVE IP54		•	•	•

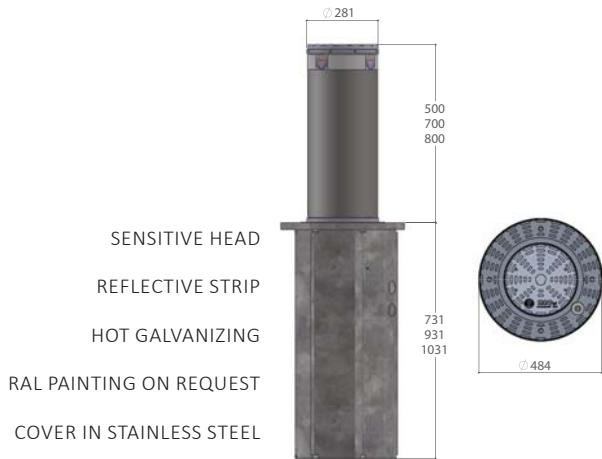
• = on board

## Optional

 <b>FOUR CHANNEL TRASMITTER 433 Mhz</b> ROLLING CODE <b>1540024</b>	 <b>ANTENNA 433 Mhz STAINLESS STEEL</b> WITH CABLE 7m <b>1540100</b>	 <b>TWO COILS MAGNET. INDUCTOR</b> FOR LOOPS OF METAL REVEAL 24VOLT DC/AC <b>1630079</b>
 <b>TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH</b> VERTICAL-WALL HEATER LED 230Vac <b>1650042</b>	 <b>FLASHING LIGHT 230 Vac LED WITH INTERMITTENT</b> BOARD <b>1655025</b>	 <b>BIODEGRADABLE HYDRAULIC OIL</b> ISO E22 <b>6964007</b>
 <b>ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4</b> AUTOMAT. BOLLARDS RADIO R. INCLUDED. ELECTRIC VALV + TRAFFIC LIGHTS <b>5050008602</b>	 <b>ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1</b> AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC. VALV + TRAFFIC LIGHTS <b>5050008615</b>	 <b>PROTECTION ACCESSORY FOR PARTS IN TENSION IN</b> PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4 <b>5050008620</b>
 <b>RSME EMERGENCY VEHICLES SOUND RECOGNIZER</b> EUROPEAN APPROVED SIRENS INDICATE THE STATE <b>5050008651</b>	 <b>ALLARM KIT</b> <b>5050008801</b>	 <b>ROAD MARKING OF SIGNALLING BE CAREFUL</b> BOLLARDS MOVING WITH POLE <b>5050008901</b>

RECOMMENDED FOR:

- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS



	THICKNESS OF CYLINDER	mm	12	4	12 inox	4 inox
<b>CSA300 H500</b>			<b>0301111</b>	<b>0301161</b>	<b>0301211</b>	<b>0301261</b>
STROKE OF CYLINDER	mm	500	500	500	500	500
SPEED OF LIFT	sec	3.90	3.90	3.90	3.90	3.90
SPEED OF LOWERING	sec	3	3	3	3	3
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec	3	3.5	3.5	3.5	3.5
TOTAL WEIGHT OF BOLLARD	Kg	123	87	133	93	


<b>CSA300 H700</b>			<b>0301101</b>	<b>0301151</b>	<b>0301201</b>	<b>0301251</b>
STROKE OF CYLINDER	mm	700	700	700	700	700
SPEED OF LIFT	sec	5.20	5.20	5.20	5.20	5.20
SPEED OF LOWERING	sec	4	4	4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec	4	5	5	5	5
TOTAL WEIGHT OF BOLLARD	Kg	160	104	170	108	

<b>CSA300 H800</b>			<b>0301121</b>	<b>0301171</b>	<b>0301221</b>	<b>0301271</b>
STROKE OF CYLINDER	mm	800	800	800	800	800
SPEED OF LIFT	sec	5.30	5.30	5.30	5.30	5.30
SPEED OF LOWERING	sec	4	4	4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec	4	5	5	5	5
TOTAL WEIGHT OF BOLLARD	Kg	170	117	180	125	




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001827




RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT



ELECTRICAL VALVE V230 N.O. FOR AUTOMATIC  
LOWERING IN POWER FAILURE

5050001251




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
WITH MASTERCARD  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001829




SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




GENERAL MAGNETIC THERMAL SWITCH FIXED ON  
THE BAR DIN IN THE BOX OF BRAIN4

5050008621




RELEASE COIL AUXILIARIES CONTRACTS FOR  
SIGNALLING NETWORK FAILURE FOR BRAIN4  
MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630




SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



SURCHARGE FOR STAINLESS STEEL 304 COATING  
FOR CSA300 T12  
TO PLACE AT THE ORDER

5050300301



SURCHARGE FOR SAFETY SENSITIVE HEAD CSA300  
TO PLACE AT THE ORDER

5050300645



# CSA 200

THE CSA AUTOMATIC BOLLARDS WITH HYDRAULIC MOTION, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

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- BUILT-IN HYDRAULIC PUMP FOR A SIMPLE INSTALLATION OF THE BOLLARD.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)















## Technical Data

TYPE OF BOLLARD	Cod.	CSA 200 Fe	CSA200 Fe	CSA 200 i
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm	200		206
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
SAFETY PRESSOSTAT IP54		OPTIONAL		
RESISTANCE TO BREAKING	J	242.000	111.000	180.000
RESISTANCE TO DEFORMATION (JOULE)	J	15.000	5.000	11.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000	
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000	
MAXIMUM PRESSURE OF WORKING	bar		30	
PROTECTION GRADE OF THE PUMP	IP		67	
POWER ABSORBED	W		500	
POWER SUPPLY	Vac		230V 50Hz	
BRIGHT HEAD POWER SUPPLY	Vdc		24	
WORKING TEMPERATURE	°C		-20 / + 80	
ELECTRICAL HEATER DEVICE IP67			0	
SELF CERTIFIED ROHS PRODUCT			•	
ELECTRICAL VALVE IP54			•	

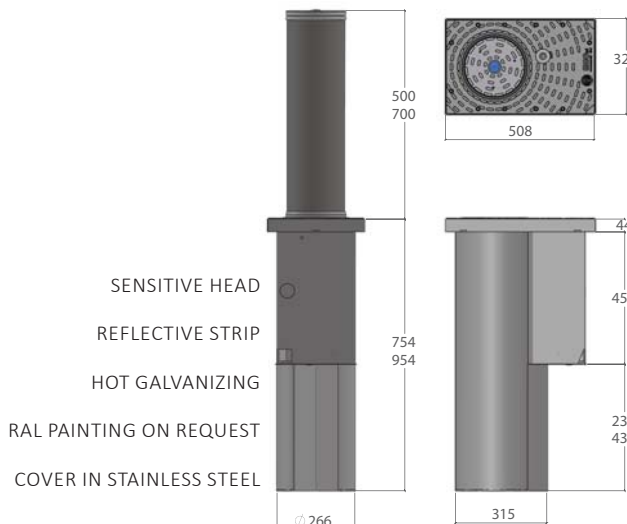
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## Optional

 <b>FOUR CHANNEL TRASMITTER 433 Mhz ROLLING CODE</b> <b>1540024</b>	 <b>ANTENNA 433 Mhz STAINLESS STEEL WITH CABLE 7m</b> <b>1540100</b>	 <b>TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL 24Vdc DC/AC</b> <b>1630079</b>
 <b>TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH VERTICAL-WALL HEATER LED 230Vac</b> <b>1650042</b>	 <b>FLASHING LIGHT 230 Vac LED WITH INTERMITTENT BOARD</b> <b>1655025</b>	 <b>BIODEGRADABLE HYDRAULIC OIL ISO E22</b> <b>6964007</b>
 <b>ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4 AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC VALV + TRAFFIC LIGHTS</b> <b>5050008602</b>	 <b>ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1 AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC. VALV + TRAFFIC LIGHTS</b> <b>5050008615</b>	 <b>PROTECTION ACCESSORY FOR PARTS IN TENSION IN PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4</b> <b>5050008620</b>
 <b>RSME EMERGENCY VEHICLES SOUND RECOGNIZER EUROPEAN APPROVED SIRENS INDICATE THE STATE</b> <b>5050008651</b>	 <b>ALLARM KIT</b> <b>5050008801</b>	 <b>ROAD MARKING OF SIGNALLING BE CAREFUL BOLLARDS MOVING WITH POLE</b> <b>5050008901</b>

RECOMMENDED FOR:

- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS



	THICKNESS OF CYLINDER	mm	12	4	4 INOX
<b>CSA200 H500</b>			<b>030151212</b>	<b>030150402</b>	<b>030150352</b>
STROKE OF CYLINDER	mm			500	
SPEED OF LIFT	sec			3.90	
SPEED OF LOWERING	sec			3	
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec			3	
TOTAL WEIGHT OF BOLLARD	Kg		98	68	74


<b>CSA200 H700</b>			<b>030151214</b>	<b>030150404</b>	<b>030150354</b>
STROKE OF CYLINDER	mm			700	
SPEED OF LIFT	sec			5.20	
SPEED OF LOWERING	sec			4	
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec			4	
TOTAL WEIGHT OF BOLLARD	Kg		117	74	80

<b>CSA200 H800</b>			<b>030151215</b>	<b>030150405</b>	<b>030150355</b>
STROKE OF CYLINDER	mm			800	
SPEED OF LIFT	sec			5.20	
SPEED OF LOWERING	sec			4	
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec			4	
TOTAL WEIGHT OF BOLLARD	Kg		125	77	




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001827



RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




ELECTRICAL VALVE V230 N.O. FOR AUTOMATIC  
LOWERING IN POWER FAILURE

5050001251




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
WITH MASTERCARD  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001829




SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




GENERAL MAGNETIC THERMAL SWITCH FIXED ON  
THE BAR DIN IN THE BOX OF BRAIN4

5050008621




RELEASE COIL AUXILIARIES CONTRACTS FOR  
SIGNALLING NETWORK FAILURE FOR BRAIN4  
MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630




SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



SURCHARGE FOR COATING STAINLESS  
STEEL 304 GLOSSY, FOR CABI T12  
TO PLACE AT THE ORDER

5050210301



SURCHARGE FOR SAFETY SENSITIVE HEAD CABI 200 TO  
PLACE AT THE ORDER

5050210641



# CSA 140

THE CSA AUTOMATIC BOLLARDS WITH HYDRAULIC MOTION, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

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- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)











## Technical Data

TYPE OF BOLLARD	Cod.	CSA 140 Fe	CSA 140 Fe	CSA 140 i
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm		140	
TYPE MATERIAL OF CYLINDER		FE510	FE360	inox
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
SAFETY PRESSOSTAT IP54		OPTIONAL		
RESISTANCE TO BREAKING	J	112.000	56.000	70.000
RESISTANCE TO DEFORMATION (JOULE)	J	5.000	3.000	4.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000	
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000	
MAXIMUM PRESSURE OF WORKING	bar		30	
PROTECTION GRADE OF THE PUMP	IP		67	
POWER ABSORBED	W		500	
POWER SUPPLY	Vac		230V 50Hz	
BRIGHT HEAD POWER SUPPLY	Vdc		24	
WORKING TEMPERATURE	°C		-20 / + 60	
ELECTRICAL HEATER DEVICE IP67			< + 1	
SELF CERTIFIED ROHS PRODUCT			•	
ELECTRICAL VALVE IP54			•	

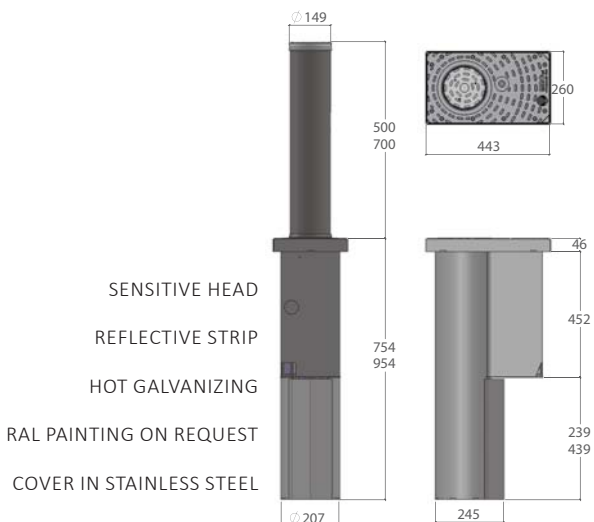
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## Optional

 <b>FOUR CHANNEL TRASMITTER 433 Mhz</b> ROLLING CODE <b>1540024</b>	 <b>ANTENNA 433 Mhz STAINLESS STEEL</b> WITH CABLE 7m <b>1540100</b>	 <b>TWO COILS MAGNET. INDUCTOR</b> FOR LOOPS OF METAL REVEAL 24VOLT DC/AC <b>1630079</b>
 <b>TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH</b> VERTICAL-WALL HEATER LED 230VAC <b>1650042</b>	 <b>FLASHING LIGHT 230 VAC LED WITH INTERMITTENT</b> BOARD <b>1655025</b>	 <b>BIODEGRADABLE HYDRAULIC OIL</b> ISO E22 <b>6964007</b>
 <b>ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4</b> AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC VALV + TRAFFIC LIGHTS <b>5050008602</b>	 <b>ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1</b> AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC. VALV + TRAFFIC LIGHTS <b>5050008615</b>	 <b>PROTECTION ACCESSORY FOR PARTS IN TENSION IN</b> PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4 <b>5050008620</b>
 <b>RSME EMERGENCY VEHICLES SOUND RECOGNIZER</b> EUROPEAN APPROVED SIRENS INDICATE THE STATE <b>5050008651</b>	 <b>ALLARM KIT</b> <b>5050008801</b>	 <b>ROAD MARKING OF SIGNALLING BE CAREFUL</b> BOLLARDS MOVING WITH POLE <b>5050008901</b>

RECOMMENDED FOR:

- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS




	THICKNESS OF CYLINDER	mm	12	4	4 inox
<b>CSA140 H500</b>	<b>Cod.</b>		<b>030141212</b>	<b>030140402</b>	<b>030140452</b>
STROKE OF CYLINDER	mm			500	
SPEED OF LIFT	sec			3.90	
SPEED OF LOWERING	sec			3	
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec			3	
TOTAL WEIGHT OF BOLLARD	Kg		75	51	56
<b>CSA140 H700</b>			<b>030141214</b>	<b>030140404</b>	<b>030140454</b>
STROKE OF CYLINDER	mm			700	
SPEED OF LIFT	sec			5.20	
SPEED OF LOWERING	sec			4	
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec			5	
TOTAL WEIGHT OF BOLLARD	Kg		86	63	68




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001827



RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




ELECTRICAL VALVE V230 N.O. FOR AUTOMATIC  
LOWERING IN POWER FAILURE

5050001251




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
WITH MASTERCARD  
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5050001829




SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




GENERAL MAGNETIC THERMAL SWITCH FIXED ON  
THE BAR DIN IN THE BOX OF BRAIN4

5050008621




RELEASE COIL AUXILIARIES CONTRACTS FOR  
SIGNALLING NETWORK FAILURE FOR BRAIN4  
MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630



SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



SUCHARGE FOR SAFETY SENSITIVE HEAD CABI 140 TO  
PLACE AT THE ODER

5050220641

# CSA 300P

THE CSA AUTOMATIC BOLLARDS, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- PNEUMATIC MOVEMENT, IT ENSURES THE FUNCTIONING OF THE BOLLARD AS A RESULT OF THE FIRST CLASS MATERIALS AND TECHNOLOGIES USED IN THE MANUFACTURING PROCESS.
- HIGH QUALITY COMPRESSORS, ENSURE THE HIGH PERFORMANCE OF THE BOLLARD.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)




## Technical Data

TYPE OF BOLLARD		CSA300 Fe	CSA300 Fe	CSA300 I
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm		273	
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
SAFETY PRESSOSTAT		OPTIONAL	OPTIONAL	OPTIONAL
RESISTANCE TO BREAKING	J	482.000	225.000	250.000
RESISTANCE TO DEFORMATION (JOULE)	J	50.000	30.000	30.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg	40.000	40.000	40.000
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000	
MAXIMUM PRESSURE OF WORKING	bar		6	

POWER SUPPLY	Vac	230V 50Hz	230V 50Hz	230V 50Hz
BRIGHT HEAD POWER SUPPLY	Vdc	24	24	24
WORKING TEMPERATURE	°C	-20 / + 80	-20 / + 80	-20 / + 80
ELECTRICAL HEATER DEVICE IP67		0	0	0
SELF CERTIFIED ROHS PRODUCT		•	•	•


• = on board

## Optional




FOUR CHANNEL TRASMITTER 433 Mhz  
ROLLING CODE

1540024




ANTENNA 433 Mhz STAINLESS STEEL  
WITH CABLE 7m

1540100




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001827




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH  
VERTICAL-WALL HEATER LED 230Vac

1650042




FLASHING LIGHT 230 Vac LED WITH INTERMITTENT  
BOARD

1655025




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
WITH MASTERCARD  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001829




PROTECTION ACCESSORY FOR PARTS IN TENSION IN  
PLEXIGLASS AND SUPPORT FOR FIXING  
CONDENSERS FOR BRAIN4

5050008620




GENERAL MAGNETIC THERMAL SWITCH FIXED ON  
THE BAR DIN IN THE BOX OF BRAIN4

5050008621




RELEASE COIL AUXILIARIES CONTRACTS FOR  
SIGNALLING NETWORK FAILURE FOR BRAIN4  
MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




ROAD MARKING OF SIGNALLING BE CAREFUL  
BOLLARDS MOVING WITH POLE

5050008901



SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



METAL CASE (1000x500x1200)  
COMPLETE WITH PLASTIC BOX  
AND CONTROL BOARD BRAIN4

5050009010 2800 RPM  
5050009011 1070 RPM

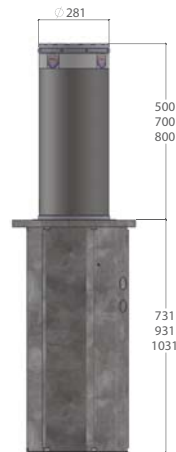


RECOMMENDED FOR:

- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS



SENSITIVE HEAD  
REFLECTIVE STRIP  
HOT GALVANIZING  
RAL PAINTING ON REQUEST  
COVER IN STAINLESS STEEL



	THICKNESS OF CYLINDER	mm	12	4	4 inox
<b>CSA300 H500</b>	<b>Cod.</b>		<b>0301511</b>	<b>0301561</b>	<b>0301661</b>
STROKE OF CYLINDER	mm		500	500	500
SPEED OF LIFT	sec		3.90	3.90	3.90
SPEED OF LOWERING	sec		3	3	3
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		3	3.5	3.5
TOTAL WEIGHT OF BOLLARD	Kg		123	87	93

<b>CSA300 H700</b>			<b>0301501</b>	<b>0301551</b>	<b>0301651</b>
STROKE OF CYLINDER	mm		700	700	700
SPEED OF LIFT	sec		5.20	5.20	5.20
SPEED OF LOWERING	sec		4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		4	5	5
TOTAL WEIGHT OF BOLLARD	Kg		160	104	108

<b>CSA300 H800</b>			<b>0301521</b>	<b>0301571</b>	<b>0301671</b>
STROKE OF CYLINDER	mm		800	800	800
SPEED OF LIFT	sec		5.20	5.20	5.20
SPEED OF LOWERING	sec		4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		4	5	5
TOTAL WEIGHT OF BOLLARD	Kg		170	117	125

TWO COILS MAGNET. INDUCTOR  
FOR LOOPS OF METAL REVEAL.  
24Volt DC/AC

1630079

EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202

RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT

SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854

ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4  
AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC  
VALV + TRAFFIC LIGHTS

5050008602

ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1  
AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC.  
VALV + TRAFFIC LIGHTS

5050008615

WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630

RSME EMERGENCY VEHICLES SOUND RECOGNIZER  
EUROPEAN APPORVED SIRENS  
INDICATE THE STATE

5050008651

ALLARM KIT

5050008801

SURCHARGE FOR STAINLESS STEEL 304 COATING  
FOR CSA300 T12  
TO PLACE AT THE ORDER

5050300301

SURCHARGE FOR SAFETY SENSITIVE HEAD CSA300  
TO PLACE AT THE ORDER

5050300645

# CSA 200P

THE CSA AUTOMATIC BOLLARDS, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- PNEUMATIC MOVEMENT, IT ENSURES THE FUNCTIONING OF THE BOLLARD AS A RESULT OF THE FIRST CLASS MATERIALS AND TECHNOLOGIES USED IN THE MANUFACTURING PROCESS.
- HIGH QUALITY COMPRESSORS, ENSURE THE HIGH PERFORMANCE OF THE BOLLARD.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)













## Technical Data

TYPE OF BOLLARD	Cod.	CSA 200 Fe	CSA 200 Fe	CSA 200 i
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm	200		206
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
SAFETY PRESSOSTAT		OPTIONAL		
RESISTANCE TO BREAKING	J	242.000	111.000	180.000
RESISTANCE TO DEFORMATION (JOULE)	J	15.000	5.000	11.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000	
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000	
MAXIMUM PRESSURE OF WORKING	bar		6	

POWER SUPPLY	Vac	230V 50Hz
BRIGHT HEAD POWER SUPPLY	Vdc	24
WORKING TEMPERATURE	°C	-20 / + 80
ELECTRICAL HEATER DEVICE IP67		0
SELF CERTIFIED ROHS PRODUCT		•

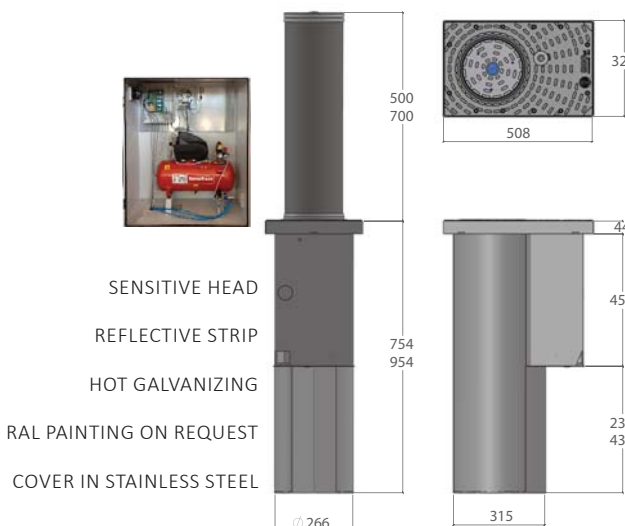
• = on board

## Optional


 <b>FOUR CHANNEL TRASMITTER 433 Mhz</b> ROLLING CODE <b>1540024</b>	 <b>ANTENNA 433 Mhz STAINLESS STEEL</b> WITH CABLE 7m <b>1540100</b>	 <b>SECURITY UNLOCK PROTECTION WITH 3 KEYS</b> ONE LOCK WITH 3 KEYS FOR EACH BOLLARD TO PROTECT THE MANUAL UNLOCK <b>5050001827</b>
 <b>TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH</b> VERTICAL-WALL HEATER LED 230Vac <b>1650042</b>	 <b>FLASHING LIGHT 230 Vac LED WITH INTERMITTENT</b> BOARD <b>1655025</b>	 <b>SECURITY UNLOCK PROTECTION WITH 3 KEYS</b> WITH MASTERCARD ONE LOCK WITH 3 KEYS FOR EACH BOLLARD TO PROTECT THE MANUAL UNLOCK <b>5050001829</b>
 <b>PROTECTION ACCESSORY FOR PARTS IN TENSION IN</b> PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4 <b>5050008620</b>	 <b>GENERAL MAGNETIC THERMAL SWITCH FIXED ON</b> THE BAR DIN IN THE BOX OF BRAIN4 <b>5050008621</b>	 <b>RELEASE COIL AUXILIARIES CONTRACTS FOR</b> SIGNALLING NETWORK FAILURE FOR BRAIN4 MANAGED BY THE EXTERNAL EMERGENCY BUTTON <b>5050008622</b>
 <b>ROAD MARKING OF SIGNALLING BE CAREFUL</b> BOLLARDS MOVING WITH POLE <b>5050008901</b>	 <b>SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE</b> THE MOVING OF BOLLARD (INTERNAL INSTALLATION) <b>5050008910</b>	 <b>METAL CASE (1000x500x1200)</b> COMPLETE WITH PLASTIC BOX AND CONTROL BOARD BRAIN4 <b>5050009010</b> 2800 RPM <b>5050009011</b> 1070 RPM

RECOMMENDED FOR:

- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS



	THICKNESS OF CYLINDER	mm	12	4	4 inox
<b>CSA200 H500</b>	<b>Cod.</b>		<b>030251212</b>	<b>030250402</b>	<b>030250452</b>
STROKE OF CYLINDER	mm		500	500	500
SPEED OF LIFT	sec		3.90	3.90	3.90
SPEED OF LOWERING	sec		3	3	3
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		3	3.5	3.5
TOTAL WEIGHT OF BOLLARD	Kg		98	68	74
<b>CSA200 H700</b>			<b>030251214</b>	<b>030250404</b>	<b>030250454</b>
STROKE OF CYLINDER	mm		700	700	700
SPEED OF LIFT	sec		5.20	5.20	5.20
SPEED OF LOWERING	sec		4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		4	5	5
TOTAL WEIGHT OF BOLLARD	Kg		117	74	80




TWO COILS MAGNET. INDUCTOR  
FOR LOOPS OF METAL REVEAL.  
24Volt DC/AC

1630079




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4  
AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC  
VALV + TRAFFIC LIGHTS

5050008602




ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1  
AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC.  
VALV + TRAFFIC LIGHTS

5050008615



WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630




RSME EMERGENCY VEHICLES SOUND RECOGNIZER  
EUROPEAN APPORVED SIRENS  
INDICATE THE STATE

5050008651




ALLARM KIT

5050008801



SURCHARGE FOR COATING STAINLESS  
STEEL 304 GLOSSY, FOR CABI T12  
TO PLACE AT THE ORDER

5050210301



SURCHARGE FOR SAFETY SENSITIVE HEAD CABI 200 TO  
PLACE AT THE ORDER

5050210641

# CSA 140P

THE CSA AUTOMATIC BOLLARDS, ARE THE TOP LINE PRODUCTS OF MAC COMPANY, THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- PNEUMATIC MOVEMENT, IT ENSURES THE FUNCTIONING OF THE BOLLARD AS A RESULT OF THE FIRST CLASS MATERIALS AND TECHNOLOGIES USED IN THE MANUFACTURING PROCESS.
- HIGH QUALITY COMPRESSORS, ENSURE THE HIGH PERFORMANCE OF THE BOLLARD.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, SENSITIVE HEAD, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)




## Technical Data

TYPE OF BOLLARD	Cod.	CSA 140 Fe	CSA 140 Fe	CSA 140 i
THICKNESS OF CYLINDER	mm	12.5	4	
DIAMETER OF CYLINDER	mm		140	
TYPE MATERIAL OF CYLINDER		FE510	FE360	inox
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		INOX 304
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
SAFETY PRESSOSTAT			OPTIONAL	
RESISTANCE TO BREAKING	J	112.000	56.000	70.000
RESISTANCE TO DEFORMATION (JOULE)	J	5.000	3.000	4.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000	
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400	
POWER SUPPLY	Vac		230V 50Hz	
BRIGHT HEAD POWER SUPPLY	Vdc		24	
WORKING TEMPERATURE	°C		-20 / + 60	
ELECTRICAL HEATER DEVICE IP67			< + 1	
SELF CERTIFIED ROHS PRODUCT			•	


• = on board

## Optional




FOUR CHANNEL TRASMITTER 433 Mhz  
ROLLING CODE

1540024




ANTENNA 433 Mhz STAINLESS STEEL  
WITH CABLE 7m

1540100




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001827




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH  
VERTICAL-WALL HEATER LED 230Vac

1650042




FLASHING LIGHT 230 Vac LED WITH INTERMITTENT  
BOARD

1655025




SECURITY UNLOCK PROTECTION WITH 3 KEYS  
WITH MASTERCARD  
ONE LOCK WITH 3 KEYS FOR EACH BOLLARD  
TO PROTECT THE MANUAL UNLOCK

5050001829




PROTECTION ACCESSORY FOR PARTS IN TENSION IN  
PLEXIGLASS AND SUPPORT FOR FIXING  
CONDENSERS FOR BRAIN4

5050008620




GENERAL MAGNETIC THERMAL SWITCH FIXED ON  
THE BAR DIN IN THE BOX OF BRAIN4

5050008621




RELEASE COIL AUXILIARIES CONTRACTS FOR  
SIGNALLING NETWORK FAILURE FOR BRAIN4  
MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



ROAD MARKING OF SIGNALLING BE CAREFUL  
BOLLARDS MOVING WITH POLE

5050008901



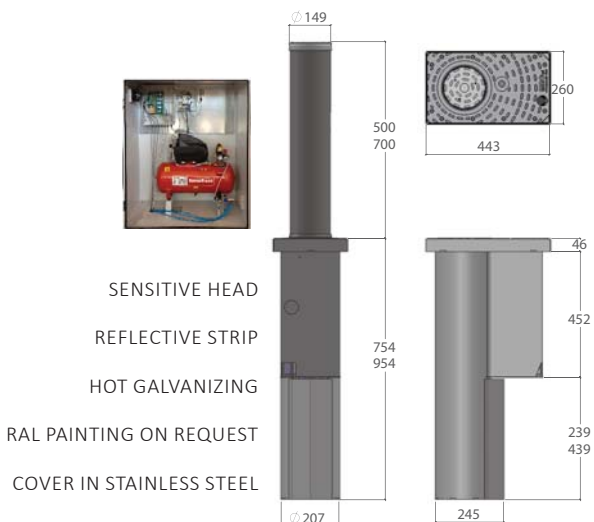
METAL CASE (1000x500x1200)  
COMPLETE WITH PLASTIC BOX  
AND CONTROL BOARD BRAIN4

5050009010 2800 RPM  
5050009011 1070 RPM



RECOMMENDED FOR:


- LIMIT TRANSIT IN PEDESTRIAN AREAS
- ACCESS CONTROL PARKING
- CONTROL DRIVEWAYS



	THICKNESS OF CYLINDER	mm	12	4	4 inox
<b>CSA140 H500</b>	<b>Cod.</b>		<b>030241212</b>	<b>030240402</b>	<b>030240452</b>
STROKE OF CYLINDER	mm		500	500	500
SPEED OF LIFT	sec		3.90	3.90	3.90
SPEED OF LOWERING	sec		3	3	3
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		3	3.5	3.5
TOTAL WEIGHT OF BOLLARD	Kg		75	51	56

<b>CSA140 H700</b>			<b>030241214</b>	<b>030240404</b>	<b>030240454</b>
STROKE OF CYLINDER	mm		700	700	700
SPEED OF LIFT	sec		5.20	5.20	5.20
SPEED OF LOWERING	sec		4	4	4
SPEED OF LOWERING AS EMERGENCY (WITH ELECTRICAL VALVE)	sec		4	5	5
TOTAL WEIGHT OF BOLLARD	Kg		86	63	68




TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL.  
24Volt DC/AC

1630079




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4  
AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC  
VALV + TRAFFIC LIGHTS

5050008602




ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1  
AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC.  
VALV + TRAFFIC LIGHTS

5050008615



WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630




RSME EMERGENCY VEHICLES SOUND RECOGNIZER  
EUROPEAN APPROVED SIRENS  
INDICATE THE STATE

5050008651



ALLARM KIT

5050008801



SUCHARGE FOR SAFETY SENSITIVE HEAD CABI 140 TO  
PLACE AT THE ODER

5050220641





## SemiAutomatic Bollards

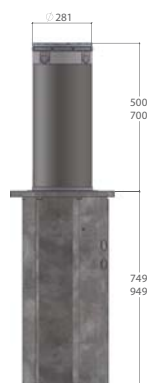
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PALMO 300	Pag. 22
PALMO 200	Pag. 23
PALMO 140	Pag. 24

# PALMO 300

SEMI-AUTOMATIC BOLLARDS PALMO WITH SINGLE EFFECT GAS MOTION HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- SINGLE EFFECT GAS MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

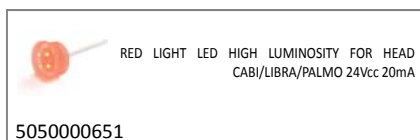
TYPE OF BOLLARD	Cod.	PALMO300 Fe	PALMO300 I
THICKNESS OF FIXED CYLINDER	mm	12.5	4
DIAMETER OF FIXED CYLINDER	mm	273	273
TYPE MATERIAL OF CYLINDER		FE510	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT	SATIN
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED	
REFLECTIVE ADHESIVE STRIPE		•	•
RESISTANCE TO BREAKING	J	482.000	250.000
RESISTANCE TO DEFORMATION (JOULE)	J	25.000	11.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg	40.000	40.000
ALIMENTAZIONE TESTA LUMINOSA	Vcc	24	24
PRODOTTO RISPONDENTE RHOS		•	•
PESO TOTALE DISSUASORE H500	kg	100	
PESO TOTALE DISSUASORE H700	kg	140	

• = on board

PALMO 300 H500	Cod.	0333021	0333041
MANUALE RETRACTABLE BOLLARD COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK			

PALMO 300 H700	Cod.	0333031	0333051
MANUALE RETRACTABLE BOLLARD COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK			

## Optional



5050000651



5050000670



5050300656



5050300658

# PALMO 200

SEMI-AUTOMATIC BOLLARDS PALMO WITH SINGLE EFFECT GAS MOTION HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- SINGLE EFFECT GAS MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

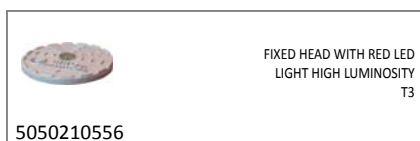
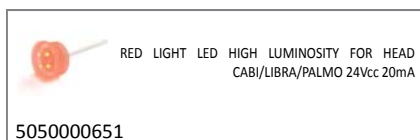
TYPE OF BOLLARD	Cod.	PALMO200 Fe	PALMO200 Fe	PALMO200/I
THICKNESS OF FIXED CYLINDER	mm	12.5	4	3
DIAMETER OF FIXED CYLINDER	mm	200	200	206
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
RESISTANCE TO BREAKING	J	242.000	111.000	122.000
RESISTANCE TO DEFORMATION (JOULE)	J	15.000	5.000	5.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg	40.000	40.000	40.000
ALIMENTAZIONE TESTA LUMINOSA	Vcc	24	24	24
PRODOTTO RISPONDENTE RHOS		•	•	•
PESO TOTALE DISSUASORE H500	kg	90	43	48
PESO TOTALE DISSUASORE H700	kg	110	51	56

• = on board

PALMO 200 H500	Cod.	0332021	0332001	0332041
MANUALE RETRACTABLE BOLLARD COMPLETE COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK				

PALMO 200 H700	Cod.	0332031	0332011	0332051
MANUALE RETRACTABLE BOLLARD COMPLETE COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK				

## Optional



# PALMO 140

SEMI-AUTOMATIC BOLLARDS PALMO WITH SINGLE EFFECT GAS MOTION HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- SINGLE EFFECT GAS MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- HOT GALVANIZED PIPE, EXTRACTABLE STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

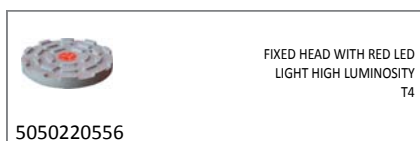
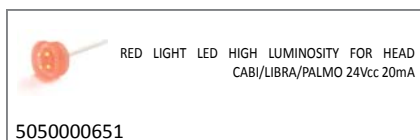
TYPE OF BOLLARD	Cod.	PALMO140 Fe	PALMO140 Fe	PALMO140/I
THICKNESS OF FIXED CYLINDER	mm	12.5	4	3
DIAMETER OF FIXED CYLINDER	mm	140	140	140
TYPE MATERIAL OF CYLINDER		FE510	FE360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF FORMWORK AND STRUCTURE		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•		
RESISTANCE TO BREAKING	J	112.000	56.000	63.000
RESISTANCE TO DEFORMATION (JOULE)	J	5.000	3.000	3.000
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg	40.000	40.000	40.000
ALIMENTAZIONE TESTA LUMINOSA	Vcc	24	24	24
PRODOTTO RISPONDENTE RHOS		•	•	•
PESO TOTALE DISSUASORE H500	kg	70	31	37
PESO TOTALE DISSUASORE H700	kg	81	39	44

• = on board

PALMO 140 H500	Cod.	0331021	0331001	0331041
MANUALE RETRACTABLE BOLLARD COMPLETE COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK				

PALMO 140 H700	Cod.	0331031	0331011	0331051
MANUALE RETRACTABLE BOLLARD COMPLETE COMPLETE WITH FORMWORK, GAS SPRING AND SECURITY LOCK				

## Optional









## Fix Bollards

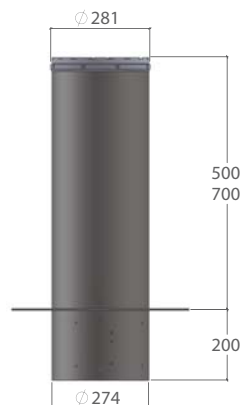
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LIBRA 300	Pag. 28
LIBRA 200	Pag. 29
LIBRA 140	Pag. 30
LIBRA 300 FLE	Pag. 31
LIBRA 200 FLE	Pag. 32
LIBRA 140 FLE	Pag. 33
LIBRA 300 FLI	Pag. 34
LIBRA 200 FLI	Pag. 35
LIBRA 140 FLI	Pag. 36

# LIBRA 300

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA300/12	LIBRA300/4	LIBRA300/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	273	273	273
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	482.000	225.000	250.000
RESISTANCE TO DEFORMATION (JOULE)	J	25.000	11.000	11.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	61	22	26
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	78	29	34

• = on board

LIBRA 300 H500	Cod.	0344601	0344621	0344651
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 300 H500	Cod.	0344603	0344623	0344653
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

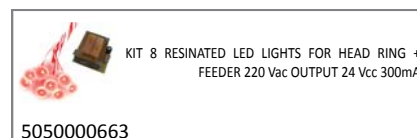
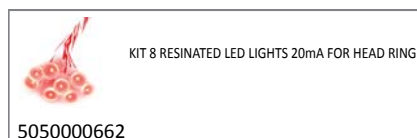
LIBRA 300 H700	Cod.	0344611	0344631	0344655
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 300 H700	Cod.	0344613	0344633	0344656
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

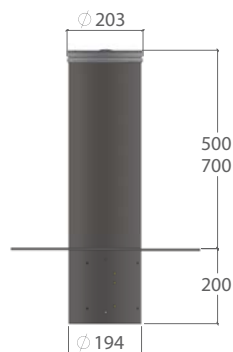
## Optional



# LIBRA 200

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA200/12	LIBRA200/4	LIBRA200/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	200	200	206
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	169.000	72.000	150.000
RESISTANCE TO DEFORMATION (JOULE)	J	15.000	5.000	9.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	35	14	19
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	51	19	24

• = on board

LIBRA 200 H500	Cod.	0344701	0344721	0344815
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 200 H500	Cod.	0344703	0344723	0344817
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

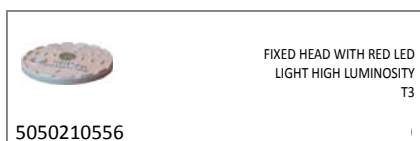
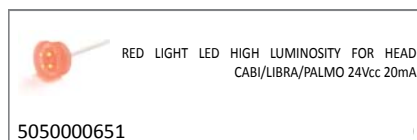
LIBRA 200 H700	Cod.	0344711	0344731	0344819
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 200 H700	Cod.	0344713	0344733	0344821
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

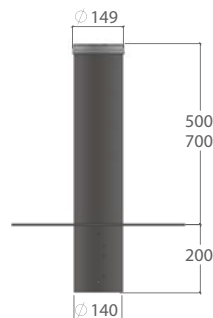
## Optional



# LIBRA 140

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA140/12	LIBRA140/4	LIBRA140/4 i
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	140	140	140
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	112.000	56.000	79.000
RESISTANCE TO DEFORMATION (JOULE)	J	5.000	3.000	3.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	26	8	13
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	35	10	15

• = on board

LIBRA 140 H500	Cod.	0344841	0344861	0345881
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 140 H500	Cod.	0344843	0344863	0345883
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

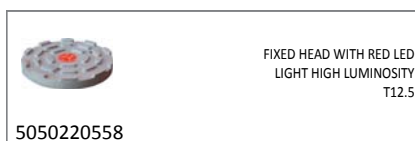
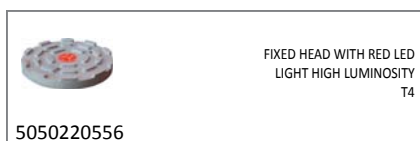
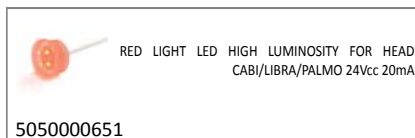
LIBRA 140 H700	Cod.	0344851	0344871	0345885
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, ALUMINIUM HEAD.  
AVAILABLE WITH LED HEAD (NO BRACKETS)

LIBRA 140 H700	Cod.	0344853	0344873	0345887
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BOLLARD FIXED ON THE GROUND BY BRICKWORK, FLAT HEAD, (NO BRACKETS)

## Optional



# LIBRA 300 FLE

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA300/12	LIBRA300/4	LIBRA300/4 i
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	273	273	273
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	386.000	180.000	200.000
RESISTANCE TO DEFORMATION (JOULE)	J	20.000	9.000	9.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	61	22	26
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	78	29	34

• = on board

LIBRA FLE300 H500	Cod.	0344401	0344421	0344501
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLE300 H500	Cod.	0344403	0344423	0344503
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

LIBRA FLE300 H700	Cod.	0344411	0344431	0344505
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLE300 H700	Cod.	0344413	0344433	0344507
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

## Optional

 <b>KIT 4 BRACKETS HOT GALVANIZED</b> <b>5050000203</b>	 <b>KIT 8 RESINATED LED LIGHTS 20mA FOR HEAD RING</b> <b>5050000662</b>	 <b>KIT 8 RESINATED LED LIGHTS FOR HEAD RING + FEEDER 220 Vac OUTPUT 24 Vcc 300mA</b> <b>5050000663</b>
 <b>FEEDER 220Vac OUTPUT 24 Vcc 300mA</b> <b>5050000670</b>	 <b>FORMWORK TO BUILD IN LIBRA 300FLE FLANGE ABOVE PAVEMENT</b> <b>5050110004</b>	 <b>FORMWORK TO BUILD IN LIBRA 300FLE FLANG + PLATFORM BUILD IN</b> <b>5050110005</b>
 <b>ALUMINIUM TRAMPLING PLATFORM LIBRA300 + CAP</b> <b>5050110451</b>	 <b>HEAD RING SUPPORT WITH 8 RESINATE LED T12,5</b> <b>5050300656</b>	 <b>HEAD RING SUPPORT WITH 8 RESINATE LED T4</b> <b>5050300658</b>



# LIBRA 200 FLE

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD		LIBRA200/12	LIBRA200/4	LIBRA200/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	200	200	206
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	194.000	89.000	93.000
RESISTANCE TO DEFORMATION (JOULE)	J	12.000	4.000	7.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	35	14	19
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	51	19	24

• = on board

<b>LIBRA FLE200 H500</b>	Cod.	<b>0344781</b>	<b>0344801</b>	<b>0344831</b>
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

<b>LIBRA FLE200 H500</b>	Cod.	<b>0344783</b>	<b>0344803</b>	<b>0344833</b>
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

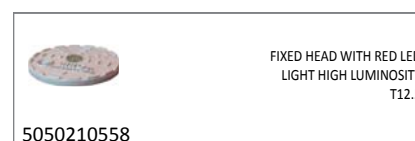
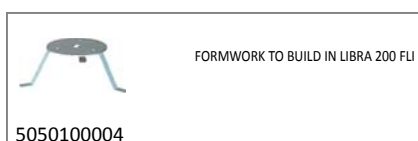
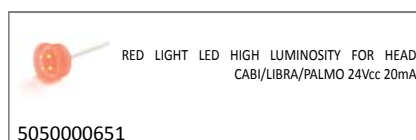
<b>LIBRA FLE200 H700</b>	Cod.	<b>0344791</b>	<b>0344811</b>	<b>0344835</b>
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

<b>LIBRA FLE200 H700</b>	Cod.	<b>0344793</b>	<b>0344813</b>	<b>0344837</b>
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

## Optional



# LIBRA 140 FLE

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBR140/12	LIBR140/4	LIBR140/4 i
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	140	140	140
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		SATIN
TREATMENT OF CYLINDER		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	90.000	45.000	79.000
RESISTANCE TO DEFORMATION (JOULE)	J	4.000	2.000	3.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	26	8	13
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	35	10	15

• = on board

LIBRA FLE140 H500	Cod.	0344921	0344941	0344971
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLE140 H500	Cod.	0344923	0344943	0344973
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

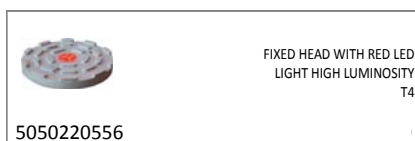
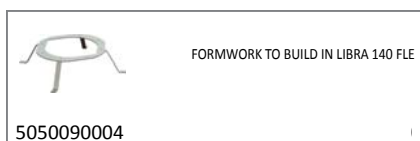
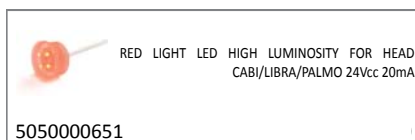
LIBRA FLE140 H700	Cod.	0344931	0344951	0344975
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLE140 H700	Cod.	0344933	0344953	0344977
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BOLLARD FIXED ON THE GROUND BY EXTERNAL FLANGE, FLAT HEAD

## Optional



# LIBRA 300 FLI

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA300/12	LIBRA300/4	LIBRA300/4 i
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	273	273	273
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	337.000	157.000	175.000
RESISTANCE TO DEFORMATION (JOULE)	J	18.000	8.000	8.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	61	22	26
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	78	29	34

• = on board

LIBRA FLI300 H500	Cod.	0344451	0344471	0344551
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLI300 H500	Cod.	0344453	0344473	0344553
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD

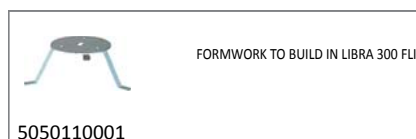
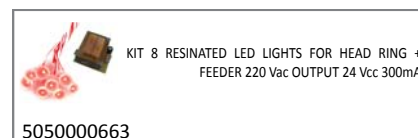
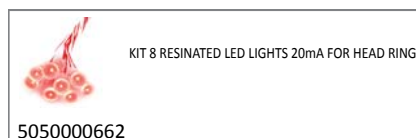
LIBRA FLI300 H700	Cod.	0344461	0344481	0344555
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

LIBRA FLI300 H700	Cod.	0344463	0344483	0344557
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD

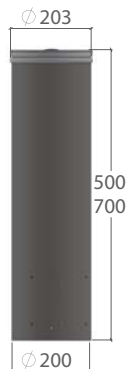
## Optional



# LIBRA 200 FLI

FIXED BOLLARD LIBRA WITH DIFFERENT ANCHORING SYSTEMS, HAVE AN EXTERNAL ASPECT SIMILAR TO THAT OF THE CSA MODEL, THIS ALLOWS A COMBINED USE OF BOTH VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN PEDESTRIAN ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD USING ITS DEDICATED INTERNAL FLANGE.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	LIBRA200/12	LIBRA200/4	LIBRA200/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	200	200	206
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	169.000	72.000	150.000
RESISTANCE TO DEFORMATION (JOULE)	J	10.000	3.000	9.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	35	14	19
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	51	19	24

• = on board

<b>LIBRA FLI200 H500</b>	Cod.	<b>0344741</b>	<b>0344761</b>	<b>0344823</b>
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

<b>LIBRA FLE200 H500</b>	Cod.	<b>0344743</b>	<b>0344763</b>	<b>0344825</b>
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD

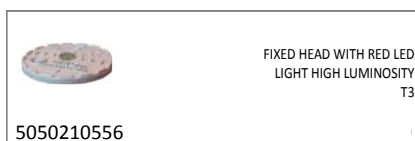
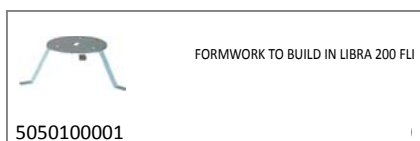
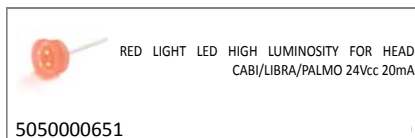
<b>LIBRA FLI200 H700</b>	Cod.	<b>0344751</b>	<b>0344771</b>	<b>0344827</b>
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD

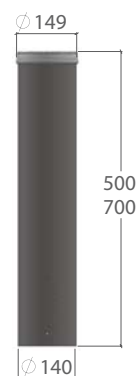
<b>LIBRA FLI200 H700</b>	Cod.	<b>0344753</b>	<b>0344773</b>	<b>0344829</b>
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BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD

## Optional



# LIBRA 140 FLI



## Technical Data

TYPE OF BOLLARD	Cod.	LIBR140/12	LIBRA140/4	LIBRA140/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	140	140	140
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	79.000	39.000	79.000
RESISTANCE TO DEFORMATION (JOULE)	J	4.000	2.000	3.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	26	8	13
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	35	10	15

• = on board

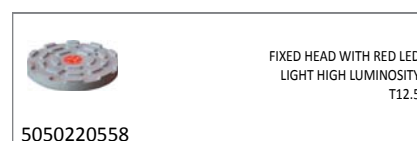
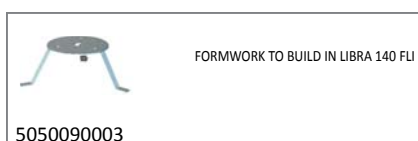
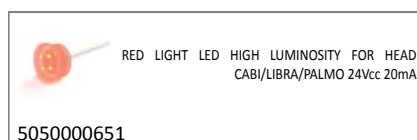
LIBRA FLI140 H500	Cod.	0344881	0344901	0344961
BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD				

LIBRA FLI140 H500	Cod.	0344883	0344903	0344963
BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD				

LIBRA FLI140 H700	Cod.	0344891	0344911	0344965
BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, ALUMINIUM HEAD. AVAILABLE ALSO WITH LED HEAD				

LIBRA FLI140 H700	Cod.	0344893	0344913	0344967
BOLLARD FIXED ON THE GROUND BY INTERNAL FLANGE, FLAT HEAD				

## Optional









## Removable Bollards

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BLINDO 300	Pag. 40
BLINDO 200	Pag. 41
BLINDO 140	Pag. 42

# BLINDO 300

REMOVABLE BOLLARDS BLINDO HAVE AN ARCHITECTURAL APPEARANCE SIMILAR TO THAT OF THE CSA OR PALMO SERIES, THIS ALLOWS A COMBINED USE OF ALL VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- MANUAL MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD ON THE DEDICATED BURIED FORMWORK.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



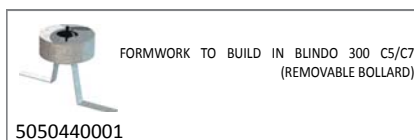
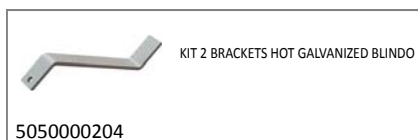
## Technical Data

TYPE OF BOLLARD	Cod.	BLINDO300/12	BLINDO300/4	BLINDO300/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	273	273	273
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	337.000	157.000	175.000
RESISTANCE TO DEFORMATION (JOULE)	J	18.000	8.000	8.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	61	22	26
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	78	29	34

• = on board

BLINDO 300 H500	Cod.	0342641	0341641	0341741
REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD				
BLINDO 300 H700	Cod.	0342651	0341651	0341751
REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD				

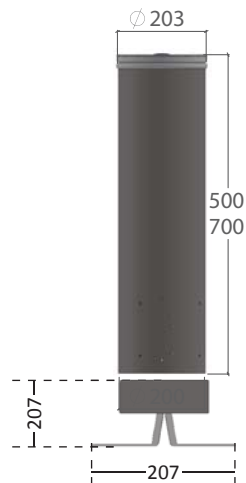
## Optional



# BLINDO 200

REMOVABLE BOLLARDS BLINDO HAVE AN ARCHITECTURAL APPEARANCE SIMILAR TO THAT OF THE CSA OR PALMO SERIES, THIS ALLOWS A COMBINED USE OF ALL VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- MANUAL MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD ON THE DEDICATED BURIED FORMWORK.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	BLINDO200/12	BLINDO200/4	BLINDO200/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	200	200	206
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	169.000	72.000	150.000
RESISTANCE TO DEFORMATION (JOULE)	J	10.000	3.000	9.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	35	14	19
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	51	19	24

• = on board

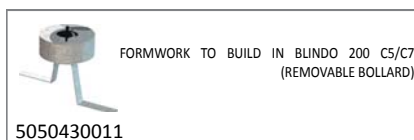
BLINDO 200 H500	Cod.	0342621	0341621	0341721
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REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD

BLINDO 200 H700	Cod.	0342631	0341631	0341731
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REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD

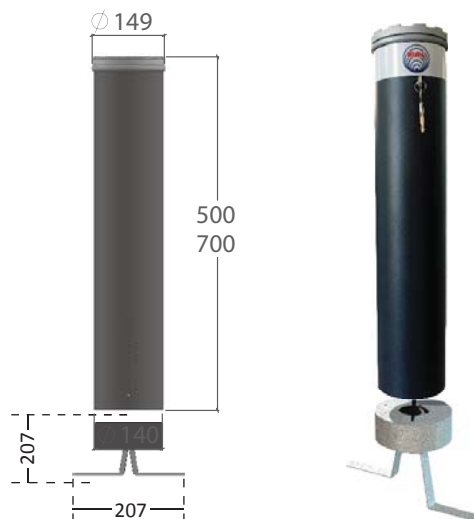
## Optional



# BLINDO 140

REMOVABLE BOLLARDS BLINDO HAVE AN ARCHITECTURAL APPEARANCE SIMILAR TO THAT OF THE CSA OR PALMO SERIES, THIS ALLOWS A COMBINED USE OF ALL VERSIONS SIMULTANEOUSLY. THESE BOLLARDS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- MANUAL MOTION, THE MOST RECOMMENDED SOLUTION TO BE USED TO CONTROL THE TRANSIT OR THE STATIONING OF VEHICLES IN DAILY TRAFFIC LIMITED ZONES.
- THE INSTALLATION IS MADE FIXING THE BOLLARD ON THE DEDICATED BURIED FORMWORK.
- HOT GALVANIZED PIPE, FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)



## Technical Data

TYPE OF BOLLARD	Cod.	BLINDO140/12	BLINDO140/4	BLINDO140/4 I
HEIGHT OF CYLINDER	mm	500 / 700	500 / 700	500 / 700
THICKNESS OF FIXED CYLINDER	mm	12,5	4	4
DIAMETER OF FIXED CYLINDER	mm	140	140	140
TYPE MATERIAL OF CYLINDER		FE 510	FE 360	INOX304
FINISHING OF CYLINDER		POLYESTER PAINT		
TREATMENT OF CYLINDER		HOT GALVANIZED		SATIN
REFLECTIVE ADHESIVE STRIPE		•	•	•
RESISTANCE TO BREAKING	J	79.000	39.000	79.000
RESISTANCE TO DEFORMATION (JOULE)	J	4.000	2.000	3.000
TOTAL WEIGHT OF BOLLARD H500 (ALUMINIUM HEAD)	Kg	26	8	13
TOTAL WEIGHT OF BOLLARD H700 (ALUMINIUM HEAD)	Kg	35	10	15

• = on board

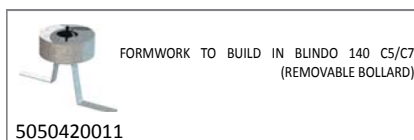
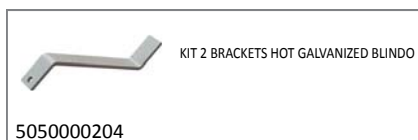
BLINDO 140 H500	Cod.	0342601	0341601	0341701
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REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD

BLINDO 140 H700	Cod.	0342611	0341611	0341711
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REMOVABLE BOLLARD FIXED ON THE GROUND THROUGH BURIED FORMWORK, ALUMINIUM HEAD

## Optional







## KIT

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DEVICES REQUIRED TO ADAPT A BOLLARD IN DIFFERENT CONDITIONS OF  
USE: PRIVATE USE, PRIVATE AND PUBLIC USE AND PUBLIC USE.



# KIT

DEVICES REQUIRED TO ADAPT A BOLLARD IN DIFFERENT CONDITIONS OF USE: PRIVATE USE, PRIVATE AND PUBLIC USE AND PUBLIC USE.



## Private



ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4 AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC VALV + TRAFFIC LIGHTS

5050008602

€ 500,00



GENERAL MAGNETIC THERMAL SWITCH FIXED ON THE BAR DIN IN THE BOX OF BRAIN4

5050008621

€ 45,00



PROTECTION ACCESSORY FOR PARTS IN TENSION IN PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4

5050008620

€ 50,00



TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL 24VnIt DC/AC

1630079

€ 270,00



FOUR CHANNEL TRASMITTER 433 Mhz ROLLING CODE

1540024



ANTENNA 433 Mhz STAINLESS STEEL WITH CABLE 7m

1540100




SELETTORE DA ESTERNO 2 CONTATTI

1560003


## Public

## Private public use




SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE THE MOVING OF BOLLARD (INTERNAL INSTALLATION)

5050008910 € 80,00




ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4 AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC VALV + TRAFFIC LIGHTS

5050008602 € 500,00




GENERAL MAGNETIC THERMAL SWITCH FIXED ON THE BAR DIN IN THE BOX OF BRAIN4

5050008621 € 45,00




PROTECTION ACCESSORY FOR PARTS IN TENSION IN PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4

5050008620 € 50,00




TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL. 24VOLT DC/AC

1630079 € 270,00




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH VERTICAL-WALL HEATER LED 230VAC

1650042 € 220,00




ROAD MARKING OF SIGNALLING BE CAREFUL BOLLARDS MOVING WITH POLE

5050008901 € 300,00



FOUR CHANNEL TRASMITTER 433 Mhz ROLLING CODE

1540024




ANTENNA 433 Mhz STAINLESS STEEL WITH CABLE 7m

1540100




EXTERNAL SWITCH

1560003




ELETTOVALVOLA V230 N.O. PER L'ABBASAMENTO AUTOMATICO IN ASSENZA DI ENERGIA ELETTRICA + CAVO PER TRASFORMAZIONE DA SUOLO PRIVATO A SUOLO PUBBLICO

5050001251




SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE THE MOVING OF BOLLARD (INTERNAL INSTALLATION)

5050008910




ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4 AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC VALV + TRAFFIC LIGHTS

5050008602




GENERAL MAGNETIC THERMAL SWITCH FIXED ON THE BAR DIN IN THE BOX OF BRAIN4

5050008621



RELEASE COIL AUXILIARIES CONTRACTS FOR SIGNALLING NETWORK FAILURE FOR BRAIN4 MANAGED BY THE EXTERNAL EMERGENCY BUTTON

5050008622




PROTECTION ACCESSORY FOR PARTS IN TENSION IN PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4

5050008620




SELETTORE DA ESTERNO 2 CONTATTI

1560003




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH VERTICAL-WALL HEATER LED 230VAC

1650042




ROAD MARKING OF SIGNALLING BE CAREFUL BOLLARDS MOVING WITH POLE

5050008901



RSME EMERGENCY VEHICLES SOUND RECOGNIZER EUROPEAN APPROVED SIRENS INDICATE THE STATE

5050008651



TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL. 24VOLT DC/AC

1630079



EMERGENCY BUTTON BREAKING GLASS IP67

1630202



## Road Blocker

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TITANO Pag. 50-51

TITANO P300 Pag. 52-53



# TITANO

ROAD BLOCKERS TITANO WITH HYDRAULIC MOTION, ARE THE PERFECT SOLUTION TO PROTECT COMPANIES, HOTELS AND CONVENTIONS CENTERS ENTRIES BESIDES ALL THE HIGH DENSITY AREAS. CURRENT MODELS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- HYDRAULIC MOVEMENT, IT THE MOST RELIABLE TECHNOLOGY FOR INTENSE USE AND IT IS OF COURSE, THE BEST SOLUTION INDEPENDENTLY FROM ALL TEMPERATURES AND WEATHER CONDITIONS.
- BUILT-IN HYDRAULIC PUMP FOR A SIMPLE INSTALLATION OF THE BOLLARD.
- HOT GALVANIZED STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)












## Technical Data

TITANO	Cod.	TITANO350 Fe	TITANO700Fe	TITANO900 Fe	TITANO1000Fe
MATERIAL		FE360	FE360	FE360	FE360
FINISHING		POLYESTER PAINT			
TREATMENT		HOT GALVANIZED			
TREATMENT OF FORMWORK AND STRUCTURE					
REFLECTIVE ADHESIVE STRIPE		•	•	•	•
SAFETY PRESSOSTAT		OPTIONAL			
RESISTANCE TO BREAKING	J	800.000	1.800.000	2.000.000	
RESISTANCE TO DEFORMATION (JOULE)	J		10.000		
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000		
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400		
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000		
MAXIMUM PRESSURE OF WORKING	bar	30		40 - 80	
PROTECTION GRADE OF THE PUMP	IP	67		55	
POWER ABSORBED	W	500		1100 - 3000	
POWER SUPPLY	Vac	230V 50Hz		380V 50Hz	
BRIGHT HEAD POWER SUPPLY	Vac		24		
WORKING TEMPERATURE	°C		-20 / + 80		
ELECTRICAL HEATER DEVICE			0		
SELF CERTIFIED ROHS PRODUCT		•	•	•	•
MANUAL HANDLING (ON REQUEST)		-	•	•	•

• = on board

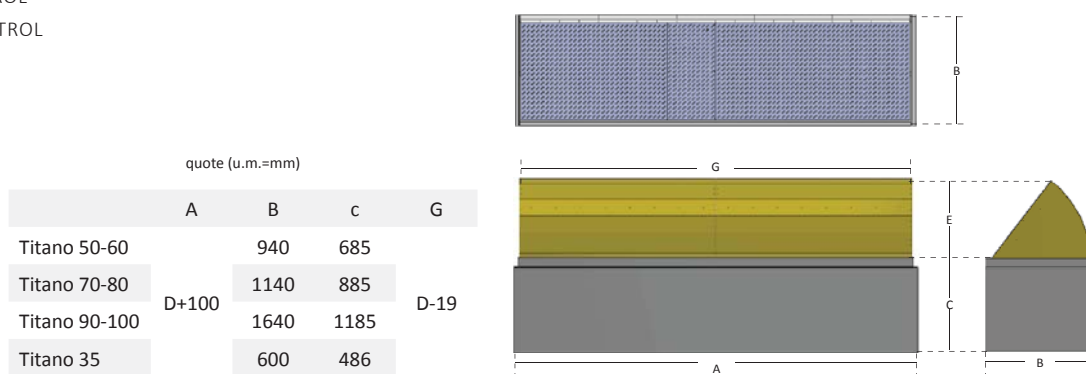
- = not on board

## Optional

 <b>FOUR CHANNEL TRANSMITTER 433Mhz DIP SWITCH</b> <b>1540004</b>	 <b>FOUR CHANNEL TRASMITTER 433 Mhz ROLLING CODE</b> <b>1540024</b>	 <b>ANTENNA 433 Mhz STAINLESS STEEL WITH CABLE 7m</b> <b>1540100</b>
 <b>FLASHING LIGHT 230 Vac LED WITH INTERMITTENT BOARD</b> <b>1655025</b>	 <b>ROAD MARKING OF SIGNALLING BE CAREFUL BOLLARDS MOVING WITH POLE</b> <b>5050008901</b>	 <b>BIODEGRADABLE HYDRAULIC OIL ISO E22</b> <b>6964007 ONLY TITANO350</b>
 <b>GENERAL MAGNETIC THERMAL SWITCH FIXED ON THE BAR DIN IN THE BOX OF BRAIN4</b> <b>5050008621</b>	 <b>RELEASE COIL AUXILIARIES CONTRACTS FOR SIGNALLING NETWORK FAILURE FOR BRAIN4 MANAGED BY THE EXTERNAL EMERGENCY BUTTON</b> <b>5050008622</b>	 <b>WEEKLY CLOCK TO INSERT IN THE CONTROLLER BRAIN</b> <b>5050008630</b>

CONSIGLIATO PER:


- CONTROL THE TRANSIT OF VEHICLES IN HOTEL'S PEDESTRIAN ZONES, COMPANIES, CONGRESS CENTERS ETC.
- PARKING ACCESS CONTROL
- DRIVEWAY ACCESS CONTROL



	Titano 35	Titano 50	Titano 60	Titano 70	Titano 80	Titano 90	Titano 100
STROKE OF CYLINDER	(E) 350	500	600	700	800	900	1000
SPEED OF LIFT	3			10			
SPEED OF LOWERING	2			7			
SPEED OF LOWERING AS EMERGENCY (with electrical valve)	2			7			


LENGTH (D)

1000mm	0351104	0352104		0354104			
2000mm	0351106	0352106	0353106	0354106	0355106	0356106	0357106
3000mm	0351107	0352107	0353107	0354107	0355107	0356107	0357107
4000mm	0351108	0352108	0353108	0354108	0355108	0356108	0357108
5000mm	0351109	0352109	0353109	0354109	0355109	0356109	0357109
6000mm	0351100	0352100	0353100	0354100	0355100	0356100	0357100




TWO COILS MAGNET. INDUCTOR  
FOR LOOPS OF METAL REVEAL.  
24Volt DC/AC

1630079




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH  
VERTICAL-WALL HEATER LED 230Vac

1650042




RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




ELECTRICALVALVE V230 N.O. FOR AUTOMATIC  
LOWERING IN POWER FAILURE FOR CHANGE FROM  
PRIVATE TO PUBLIC LAND

5050001253 ONLY TITANO350



SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




PROTECTION ACCESSORY FOR PARTS IN TENSION IN  
PLEXIGLASS AND SUPPORT FOR FIXING  
CONDENSERS FOR BRAIN4

5050008620




ALLARM KIT

5050008801



SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE  
THE MOVING OF BOLLARD  
(INTERNAL INSTALLATION)

5050008910



BRAIN4 2R1 TRIFASE PER 1 ROAD BLOCKER

5050008609



# TITANO P300

ROAD BLOCKERS TITANO WITH HYDRAULIC MOTION, ARE THE PERFECT SOLUTION TO PROTECT COMPANIES, HOTELS AND CONVENTIONS CENTERS ENTRIES BESIDES ALL THE HIGH DENSITY AREAS. CURRENT MODELS ARE THE RESULT OF THE CONTINUOUS DEVELOPMENT OF MORE THAN 25 YEARS OF EXPERIENCE.

- HYDRAULIC MOVEMENT, IT THE MOST RELIABLE TECHNOLOGY FOR INTENSE USE AND IT IS OF COURSE, THE BEST SOLUTION INDEPENDENTLY FROM ALL TEMPERATURES AND WEATHER CONDITIONS.
- BUILT-IN HYDRAULIC PUMP FOR A SIMPLE INSTALLATION OF THE BOLLARD.
- HOT GALVANIZED STRUCTURE AND FORMWORK FOR A LONG TERM RESISTANCE TO WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS, INTEGRATED LED, UNLOCK ELECTRICAL VALVE, HEATER RESISTANCE, BUZZER ETC. (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET)












## Technical Data

TITANO	Cod.	TITANO350 Fe	TITANO700Fe	TITANO900 Fe	TITANO1000Fe
MATERIAL		FE360	FE360	FE360	FE360
FINISHING		POLYESTER PAINT			
TREATMENT		HOT GALVANIZED			
TREATMENT OF FORMWORK AND STRUCTURE					
REFLECTIVE ADHESIVE STRIPE		•	•	•	•
SAFETY PRESSOSTAT		OPTIONAL			
RESISTANCE TO BREAKING	J	800.000	1.800.000	2.000.000	
RESISTANCE TO DEFORMATION (JOULE)	J		10.000		
STATIC RESISTANCE BOLLARD OPEN (CERTIFIED)	Kg		40.000		
DAILY CYCLES - INTENSIVE USE (INTERMITTENT CYCLE S3)			2.400		
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE			1.500.000		
MAXIMUM PRESSURE OF WORKING	bar	30		40 - 80	
PROTECTION GRADE OF THE PUMP	IP	67		55	
POWER ABSORBED	W	500		1100 - 3000	
POWER SUPPLY	Vac	230V 50Hz		380V 50Hz	
BRIGHT HEAD POWER SUPPLY	Vac			24	
WORKING TEMPERATURE	°C			-20 / + 80	
ELECTRICAL HEATER DEVICE				0	
SELF CERTIFIED ROHS PRODUCT		•	•	•	•
MANUAL HANDLING (ON REQUEST)		-	•	•	•

• = on board

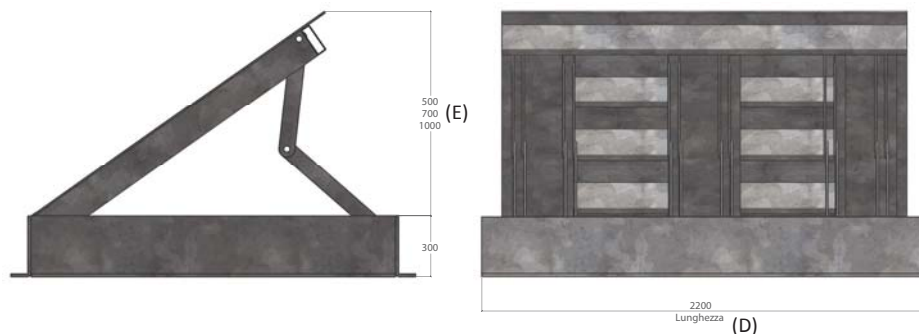
- = not on board

## Optional

 <p>FOUR CHANNEL TRANSMITTER 433Mhz DIP SWITCH</p> <p>1540004</p>	 <p>FOUR CHANNEL TRASMITTER 433 Mhz ROLLING CODE</p> <p>1540024</p>	 <p>ANTENNA 433 Mhz STAINLESS STEEL WITH CABLE 7m</p> <p>1540100</p>
 <p>FLASHING LIGHT 230 Vac LED WITH INTERMITTENT BOARD</p> <p>1655025</p>	 <p>ROAD MARKING OF SIGNALLING BE CAREFUL BOLLARDS MOVING WITH POLE</p> <p>5050008901</p>	 <p>BIODEGRADABLE HYDRAULIC OIL ISO E22</p> <p>6964007 ONLY TITANO350</p>
 <p>GENERAL MAGNETIC THERMAL SWITCH FIXED ON THE BAR DIN IN THE BOX OF BRAIN4</p> <p>5050008621</p>	 <p>RELEASE COIL AUXILIARIES CONTRACTS FOR SIGNALLING NETWORK FAILURE FOR BRAIN4 MANAGED BY THE EXTERNAL EMERGENCY BUTTON</p> <p>5050008622</p>	 <p>WEEKLY CLOCK TO INSERT IN THE CONTROLLER BRAIN</p> <p>5050008630</p>

CONSIGLIATO PER:

- CONTROL THE TRANSIT OF VEHICLES IN HOTEL'S PEDESTRIAN ZONES, COMPANIES, CONGRESS CENTERS ETC.
- PARKING ACCESS CONTROL
- DRIVEWAY ACCESS CONTROL



	Titano 50	Titano 70	Titano 10
STROKE OF CYLINDER (E)	500	700	1000
SPEED OF LIFT		5	
SPEED OF LOWERING		4	
SPEED OF LOWERING AS EMERGENCY (with electrical valve)		4	
LENGTH (D)			
2000mm	035120422	035140422	035170422

3000mm	035120423	035140423	035170423
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4000mm	035120424	035140424	035170424
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5000mm	035120425	035140425	035170425
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6000mm	035120426	035140426	035170426
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Additional price for non standard pieces every 250mm	035120420	035140420	035170420
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Emergency lifting circuit	035128000	035148000	035178000
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Painted frontal covering sheet (at linear meter)	035127011	035147011	035177011
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Lifting manual oump	035106000
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Led signallers from 2m to 3m n°2 pieces	5050000642
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Led signallers from 4m a 5m n°3 pieces	5050000643
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Led signallers from 6m n°4 pieces	5050000644
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TWO COILS MAGNET. INDUCTOR FOR LOOPS OF METAL REVEAL.  
24Volt DC/AC

1630079




TRAFFIC LIGHT LED WITH 2 LIGHTS RED/GREEN WITH VERTICAL-WALL HEATER LED 230Vac

1650042




RED/GREEN LED LIGHTS  
TRAFFIC LIGHT IN STAINLESS STEEL  
EVERY LIGHT HAS 6 SEPARATED CIRCUITS

1650001 2 LIGHT  
1650002 4 LIGHT




ELECTRICALVALVE V230 N.O. FOR AUTOMATIC LOWERING IN POWER FAILURE FOR CHANGE FROM PRIVATE TO PUBLIC LAND

5050001253 ONLY TITANO350



SELF REGULATING ELECTRICAL HEATER RESISTANCE  
250W 230V IP 67 WITH BRACKET

5050001854




PROTECTION ACCESSORY FOR PARTS IN TENSION IN PLEXIGLASS AND SUPPORT FOR FIXING CONDENSERS FOR BRAIN4

5050008620




ALLARM KIT

5050008801



SA1 ACOUSTIC BUZZER 230V IP 67 FOR TO SIGNALATE THE MOVING OF BOLLARD (INTERNAL INSTALATION)

5050008910



BRAIN4 2R1 TRIFASE PER 1 ROAD BLOCKER

5050008609







Tyre Killer

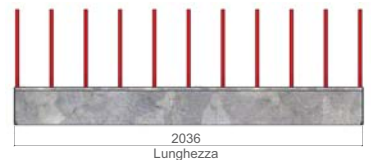
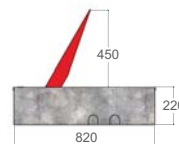
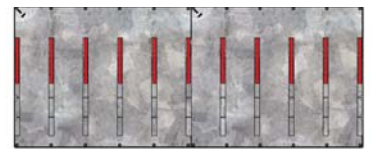
TRAFFIC PLATE Pag. 56-59



# TRAFFIC PLATE

TRAFFIC PLATE TYRE KILLER WITH HYDRAULIC MOTION, IS COMPOSED BY IRON SPURS WITH 20MM OF THICKNESS. IN ORDER TO IMPROVE ITS EFFICIENCY, IT CAN BE INSTALLED AND USED IN COUPLE WITH OTHER MAC'S DEVICES.

- HYDRAULIC MOTION.
- THE PRODUCTS IS HOT GALVANIZED IN ORDER TO IMPROVE ITS RESISTANCE TO THE WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET).



## Technical Data

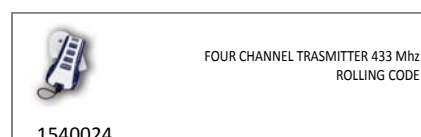
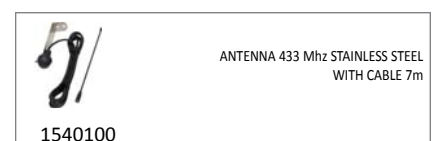
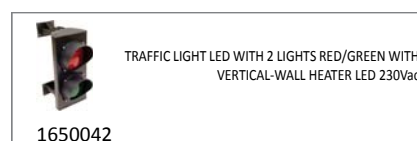
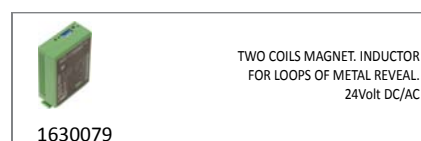
TRAFFIC PLATE	Cod.	TRAFFIC PLATE
MATERIAL OF THE SPURS		FE360
FINISHING OF THE SPURS		FE360
FORMWORK AND STRUCTURE TREATMENT		HOT GALVANIZED
COVER FINISHING		
THICKNESS	mm	20
LOAD CHARGE RESISTANCE	KG	40.000
SECURITY PRESSURE SWITCH		-
DAILY CYCLES INTENSIVE USE (1 CYCLE EVERY 3 SECONDS)		2.400
CYCLES WITHOUT MAINTENANCE BEFORE BREAKING		1.500.000
MAX WORKING PRESSURE	BAR	30
PUMP PROTECTION DEGREE	IP	67
POWER CONSUMPTION	W	500
POWER SUPPLY	Vac	230V / 50Hz
WORKING TEMPERATURE	°C	-20 / +80
ROSH PRODUCT		•

• = standard

- = non standard

HYDRAULIC UNDERGROUNDED TYRE KILLER h450 pitch 200	Length	Cod.
	2000	039545032
	3000	039545033
	4000	039545034
	5000	039545035
	6000	039545036
non-standard cost every 200mm		039545030
emergency circuit		035128000
manual pump		035106000

## Optional

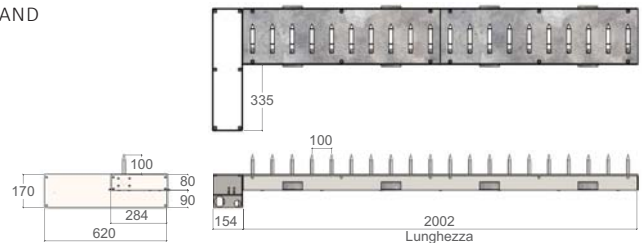


# TRAFFIC PLATE

TRAFFIC PLATE TYRE KILLER WITH HYDRAULIC MOTION, IS COMPOSED BY IRON SPURS WITH 10MM OF THICKNESS. IN ORDER TO IMPROVE ITS EFFICIENCY, IT CAN BE INSTALLED AND USED IN COUPLE WITH OTHER MAC'S DEVICES.



- HYDRAULIC MOTION.
- THE PRODUCTS IS HOT GALVANIZED IN ORDER TO IMPROVE ITS RESISTANCE TO THE WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET).



## Technical Data

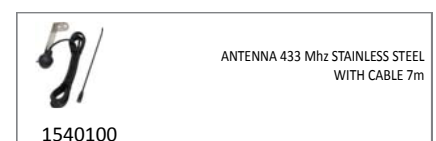
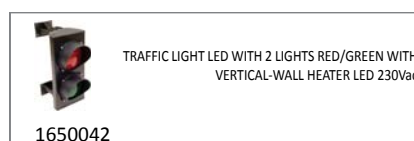
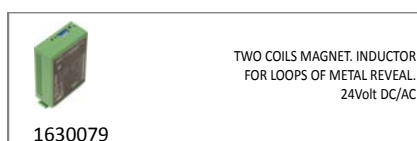
TRAFFIC PLATE	Cod.	TRAFFIC PLATE
MATERIAL OF THE SPURS		INOX
FINISHING OF THE SPURS		INOX
FORMWORK AND STRUCTURE TREATMENT		HOT GALVANIZED
COVER FINISHING		
THICKNESS	mm	10
LOAD CHARGE RESISTANCE	KG	40.000
SECURITY PRESSURE SWITCH		-
DAILY CYCLES INTENSIVE USE (1 CYCLE EVERY 3 SECONDS)		2.400
CYCLES WITHOUT MAINTENANCE BEFORE BREAKING		1.500.000
MAX WORKING PRESSURE	BAR	30
PUMP PROTECTION DEGREE	IP	67
POWER CONSUMPTION	W	500
POWER SUPPLY	Vac	230V / 50Hz
WORKING TEMPERATURE	°C	-20 / +80
ROSH PRODUCT		•

• = standard

- = non standard

HYDRAULIC UNDERGROUNDED TYRE KILLER h100 pitch 100	Length	Cod.
	2000	039510532
	3000	039510533
	4000	039510534
	5000	039510535
	6000	039510536
non-standard cost every 250mm		039510530
manual pump		035106000

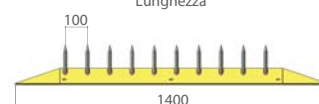
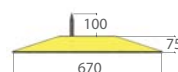
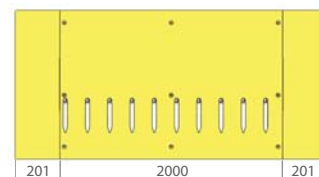
## Optional



# TRAFFIC PLATE

TRAFFIC PLATE TYRE KILLER WITH HYDRAULIC MOTION, IS COMPOSED BY IRON SPURS WITH 10MM OF THICKNESS.  
IN ORDER TO IMPROVE ITS EFFICIENCY, IT CAN BE INSTALLED AND USED IN COUPLE WITH OTHER MAC'S DEVICES.

- HYDRAULIC MOTION.
- THE PRODUCTS IS HOT GALVANIZED IN ORDER TO IMPROVE ITS RESISTANCE TO THE WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET).



## Technical Data

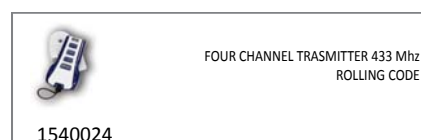
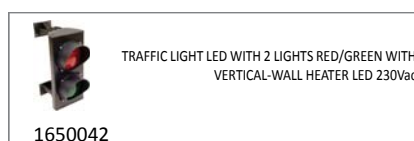
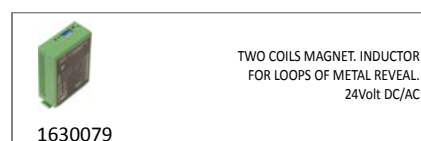
TRAFFIC PLATE	Cod.	TRAFFIC PLATE
MATERIAL OF THE SPURS		INOX
FINISHING OF THE SPURS		INOX
FORMWORK AND STRUCTURE TREATMENT		HOT GALVANIZED
COVER FINISHING		
THICKNESS	mm	10
LOAD CHARGE RESISTANCE	KG	40.000
SECURITY PRESSURE SWITCH		-
DAILY CYCLES INTENSIVE USE (1 CYCLE EVERY 3 SECONDS)		2.400
CYCLES WITHOUT MAINTENANCE BEFORE BREAKING		1.500.000
MAX WORKING PRESSURE	BAR	30
PUMP PROTECTION DEGREE	IP	67
POWER CONSUMPTION	W	500
POWER SUPPLY	Vac	230V / 50Hz
WORKING TEMPERATURE	°C	-20 / +80
ROSH PRODUCT		•

• = standard

- = non standard

HYDRAULIC EXTERNAL TYRE KILLER h100 pitch 100	Length	Cod.
	2000	039410532
	3000	039410533
	4000	039410534
	5000	039410535
	6000	039410536
non-standard cost every 250mm		039410530
manual pump		035106000

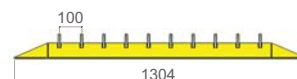
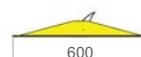
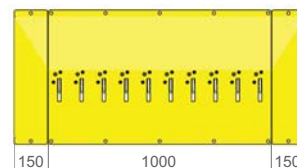
## Optional



# TRAFFIC PLATE

TRAFFIC PLATE TYRE KILLER WITH MECHANICAL MOTION, IS COMPOSED BY IRON SPURS WITH 10MM OF THICKNESS. IN ORDER TO IMPROVE ITS EFFICIENCY, IT CAN BE INSTALLED AND USED IN COUPLE WITH OTHER MAC'S DEVICES.

- MECHANICAL MOTION WITH SPRING COMEBACK.
- THE PRODUCTS IS HOT GALVANIZED IN ORDER TO IMPROVE ITS RESISTANCE TO THE WEAR.
- WIDE RANGE OF CUSTOMIZATION: CUSTOM COLOURS (SEE ACCESSORIES AND OPTIONAL ITEMS SHEET).



## Technical Data

TRAFFIC PLATE	Cod.	TRAFFIC PLATE
MATERIAL OF THE SPURS		FE360 / INOX304
FINISHING OF THE SPURS		FE360 / INOX304
FORMWORK AND STRUCTURE TREATMENT		HOT GALVANIZED
COVER FINISHING EXTERNAL MODEL		POWDER PAINTED
COVER FINISHING UNDERGROUNDED MODEL		HOT GALVANIZED
THICKNESS	mm	5
LOAD CHARGE RESISTANCE	KG	40.000

• = standard

TRAFFIC PLATE UNDERGROUNDED 1000MM	Cod.
FORMWORK IN STAINLESS STEEL 304	0390220
HEAD FOR FORMWORK	0390201
JOINT FOR FORMWORK 304	0390202
TRAFFIC PLATE COMPLETE WITH FORMWORK (MOVEMENT MECHANISM IN HOT GALVANIZED FE360)	0391120
TRAFFIC PLATE COMPLETE WITH FORMWORK (MOVEMENT MECHANISM IN STAINLESS STEEL)	0391220

TRAFFIC PLATE EXTERNAL 1000MM	Cod.
HEAD TRAFFIC PLATE	0391390
TRAFFIC PLATE COMPLETE WITH FORMWORK (MOVEMENT MECHANISM IN HOT GALVANIZED FE360)	0391320
TRAFFIC PLATE COMPLETE WITH FORMWORK (MOVEMENT MECHANISM IN STAINLESS STEEL)	0391420





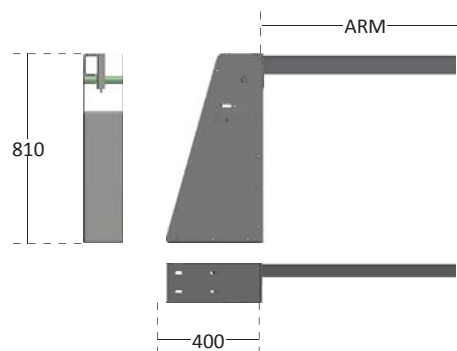


## Altro

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SBARRA	Pag. 62
GTA	Pag. 63
ITRON	Pag. 64

# MANUAL BARRIER

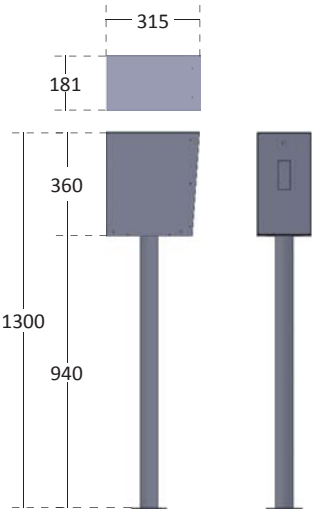


MANUAL BARRIER	Cod.
PAINTED MANUAL BARRIER	0461001
HOT GALVANIZED AND PAINTED MANUAL BARRIER	0461000

Optional

 0461002	ALUMINIUM WHITE BAR 2M	 0461003	ALUMINIUM WHITE BAR 3M	 0461004	ALUMINIUM WHITE BAR 4M
 0461005	ALUMINIUM WHITE BAR 5M	 0461006	ALUMINIUM WHITE BAR 6M	 0461011	FIXED LEG
 0461012	SLIDING LEG	 5820002	SAFETY LOCK		

# GTA 1300



COIN BOX	Cod.
PAINTED COIN BOX	1560070

Optional





PEDESTRIAN SYSTEM	Cod.
MASTER POST	0346085
SLAVE POST	0346086

Optional



MASTER HEAD

0346090

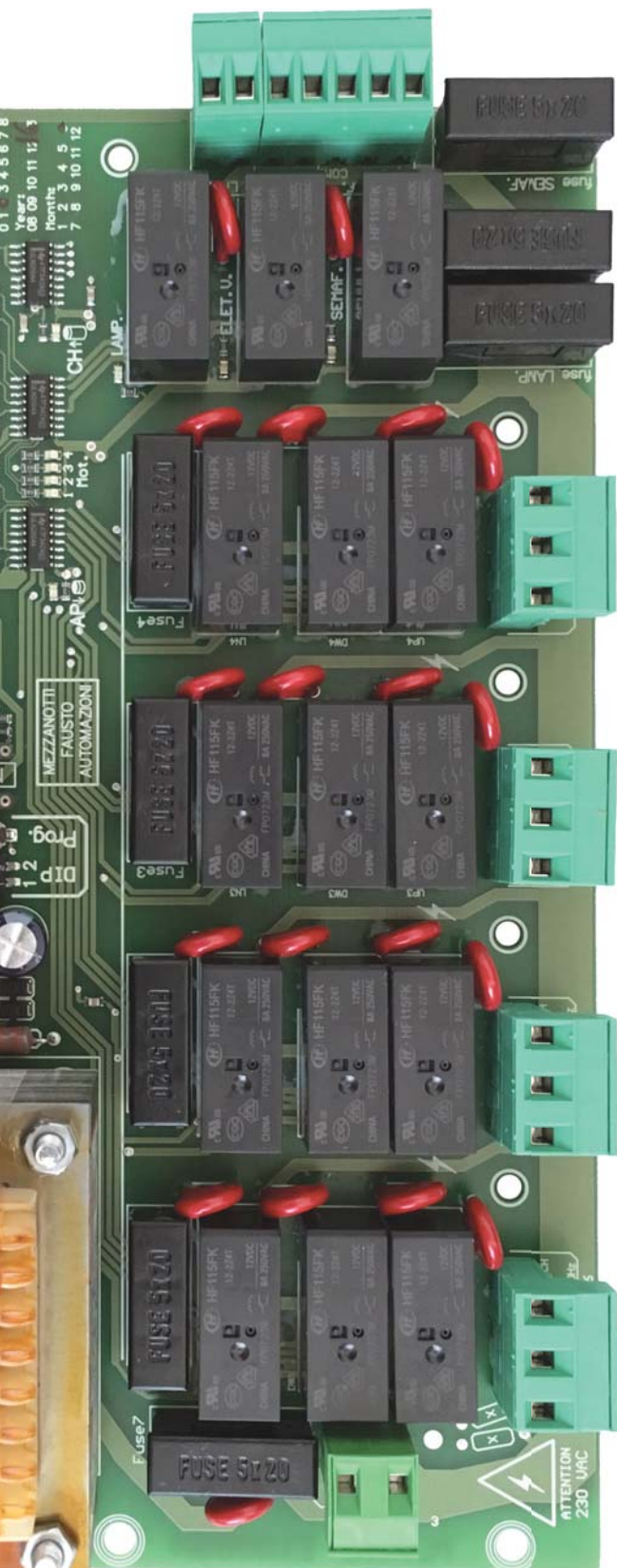


SLAVE HEAD

0346091







Optional

Pag. 68-70



# OPTIONAL

## For Bollards



SURCHARGE FOR COATING STAINLESS  
STEEL 304 GLOSSY, FOR CABI T12  
TO PLACE AT THE ORDER

5050210301



SURCHARGE FOR STAINLESS STEEL 304 COATING  
FOR CSA300 T12  
TO PLACE AT THE ORDER

5050300301



ALUMINIUM TRAMPLING PLATFORM  
LIBRA300 + CAP

5050110451



ALUMINIUM TRAMPLING PLATFORM  
PALMO 200

5050060451



ALUMINIUM TRAMPLING PLATFORM  
PALMO 140

5050050451



ALUMINIUM TRAMPLING PLATFORM  
CSA200 + CAP

5050210453



ALUMINIUM TRAMPLING PLATFORM  
CSA200 INOX + CAP

5050210454



ALUMINIUM TRAMPLING PLATFORM  
CSA140 + CAP

5050220451



FIXED HEAD WITH RED LED  
LIGHT HIGH LUMINOSITY  
T3

5050210556



FIXED HEAD WITH RED LED  
LIGHT HIGH LUMINOSITY  
T12.5

5050210558



FIXED HEAD WITH RED LED  
LIGHT HIGH LUMINOSITY  
T4

5050220556



FIXED HEAD WITH RED LED  
LIGHT HIGH LUMINOSITY  
T12.5

5050220558



HEAD RING SUPPORT  
WITH 8 RESINATE LED  
T12,5

5050300656



HEAD RING SUPPORT  
WITH 8 RESINATE LED  
T4

5050300658



KIT 4 BRACKETS HOT GALVANIZED

5050000203



KIT 2 BRACKETS HOT GALVANIZED BLINDO

5050000204



FORMWORK TO BUILD IN LIBRA 140 FLI

5050090003



FORMWORK TO BUILD IN LIBRA 140 FLE

5050090004



FORMWORK TO BUILD IN LIBRA 200 FLI

5050100001



FORMWORK TO BUILD IN LIBRA 200 FLI

5050100004



FORMWORK TO BUILD IN LIBRA 300 FLI

5050110001



FORMWORK TO BUILD IN LIBRA 300FLE  
FLANGE ABOVE PAVEMENT

5050110004



FORMWORK TO BUILD IN LIBRA 300FLE  
FLANGE + PLATFORM BUILD IN

5050110005



FORMWORK TO BUILD IN BLINDO 140 C5/C7  
(REMOVABLE BOLLARD)

5050420011



FORMWORK TO BUILD IN BLINDO 200 C5/C7  
(REMOVABLE BOLLARD)

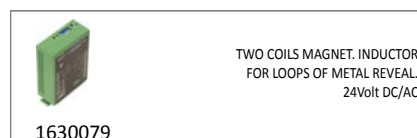
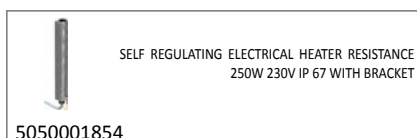
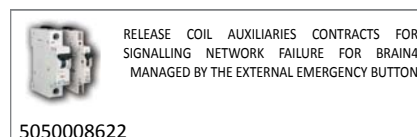
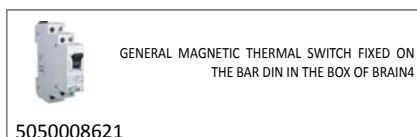
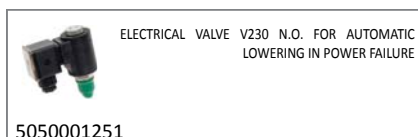
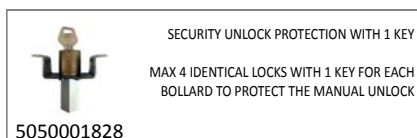
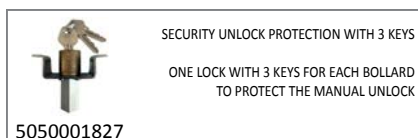
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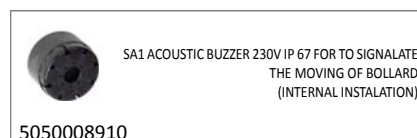
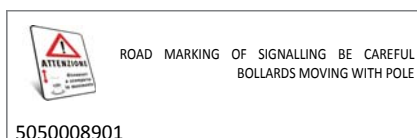
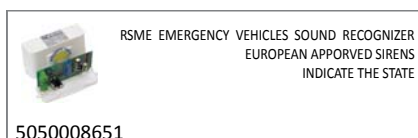
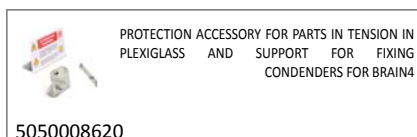
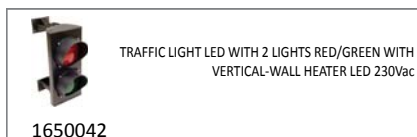
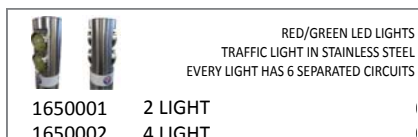
FORMWORK TO BUILD IN BLINDO 300 C5/C7  
(REMOVABLE BOLLARD)

5050440001

# Security




# Warning




# OPTIONAL

## Other




BIODEGRADABLE HYDRAULIC OIL  
ISO E22

6964007




RED LIGHT LED HIGH LUMINOSITY FOR HEAD  
CABI/LIBRA/PALMO 24Vcc 20mA

5050000651



KIT 8 RESINATED LED LIGHTS 20mA FOR HEAD RING

5050000662



KIT 8 RESINATED LED LIGHTS FOR HEAD RING +  
FEEDER 220 Vac OUTPUT 24 Vcc 300mA

5050000663



FEEDER 220Vac  
OUTPUT 24 Vcc 300mA

5050000670

## Control




FOUR CHANNEL TRANSMITTER 433Mhz DIP SWITCH

1540004



FOUR CHANNEL TRASMITTER 433 Mhz  
ROLLING CODE

1540024



ANTENNA 433 Mhz STAINLESS STEEL  
WITH CABLE 7m

1540100




EMERGENCY BUTTON  
BREAKING GLASS IP67

1630202




WEEKLY CLOCK TO INSERT  
IN THE CONTROLLER BRAIN

5050008630




ELECT. CONTROL. BRAIN4 IP56 MANAGEMENT OF 4  
AUTOMAT. BOLLARDS RADIO R. INCLUDED ELECTRIC  
VALV + TRAFFIC LIGHTS

5050008602



BRAIN4 2R1 TRIFASE PER 1 ROAD BLOCKER

5050008609




ELECT. CONTROL. BRAIN1 IP56 MANAGEMENT OF 1  
AUTOMAT. BOLLARD RADIO R. INCLUDED 1 ELECTRIC.  
VALV + TRAFFIC LIGHTS

5050008615



FRAMEWORK WITH BRAIN 8

5050009010



METAL CASE (1000x500x1200)  
COMPLETE WITH PLASTIC BOX  
AND CONTROL BOARD BRAIN4

5050009010 2800 RPM  
5050009011 1070 RPM

# NOTE



# NOTE



# NOTE



# NOTE

# GENERAL SALES CONDITIONS

1. This catalogue substitutes all the previous catalogues. We recommend to report the code of the article in the order.
2. We recommend to specify your carrier or if the transport is effectuated by your own means; otherwise the goods will be transported by our carrier with charge on the invoice.  
The order is confirmed when the order confirmation or the proforma invoice is sent  
Orders for products must contain all the product information: code, description, quantity, etc. and must be submitted by mail or fax.
3. All offers and proposals elaborated by MAC s.r.l. shall last 60 (sixty) days, unless agreed otherwise.
4. Eventually granted discounts must be approved by Commercial Management of MAC s.r.l. before the practical application.
5. The equipped material has a guarantee of 24(twenty-four) months, from the date of delivery, against defects of material or manufacture. MAC s.r.l. undertakes to free replacement or repair of the faulty part after the restitution of the same directly to MAC s.r.l. or to its local Services in order to allow the identification of the fault and the last of the guarantee.  
Product under guarantee: the product will be repaired and send to the costumer within 45 working days from the date of receipt.  
Functioning product: the product will return with no intervention. The inspection cost will be charged.  
Transport: the goods must be delivered free port, otherwise they won't be accepted.
6. The products out of guarantee will be repaired, after having been confirmed by the buyer. If the charge won't be accepted, the goods will be returned.
7. Will be considered OUT OF GUARANTEE, at unquestionable judgment of MAC s.r.l.:
  - devices that are out of the temporal period of 2 (two) years;
  - devices that have manumissions or failures due to incompetence or other like:
    - various burns, electric engine burned, repair attempts, oxidation due to water infiltration.
    - mechanical failures induced on the circuit and/or its components
    - whatever else caused by negligence, improper use of the product or the occurrence of natural events.
8. The merchandise out of production and the obsolete goods will be substituted by others with similar technical characteristics.
9. Eventual complaints or disputes must be sent, with documentation, to MAC s.r.l. or to its local Services, within eight days from the date of receiving of the material; complaints or disputes do not confer the right to suspend payments. Any returned goods must be agreed and authorized by MAC s.r.l. before the return.  
The goods must be returned ex works, with carriage and packaging at cost, charged in the invoice. Goods travel at buyer's risk: the company MAC s.r.l. won't be held responsible for any delay, stealing and damage (total or partial) caused during transport.  
Claims on the packaging must be reported within 24 hours from the date of delivery of the goods attaching the documentation of shipping and purchase, otherwise the claim falls.
10. The terms of payment must be strictly respected. If payment will be delayed, the company MAC s.r.l. can suspend deliveries in progress and future deliveries, following written communication, until that the amounts due won't be paid. The buyer can not claim any non-compliance if payments are not in order. The products will remain the property of MAC s.r.l. until the full purchase price will be paid.
11. Sales disputes: any dispute pertaining to this contract and/or individual sales contracts, including disputes regarding validity, interpretation, implementation or settlement, must be resolved exclusively in the Court of Pesaro.
12. The company MAC s.r.l. reserves the right to modify its price list with no notice; the prices are considered ex works, excluding VAT and packaging at cost with charge in the invoice.





**MAC srl**

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Reseller