

035507 Vers:3 GB



ELECTROMECHANICAL BOLLARDS RANGE



Totem is a street cabinet suitable for the support and installation, in urban areas, means of controlling for bollards, barriers and any other device equipped with fittings for attachment to DIN rail. Consists of one or two overlapping modules made of treatment cataphoresis steel and painted gray sable, able to withstand long corrosion weathering. The form below is suitable to house electrical equipment to manage the entire system. The module above, however, has an aluminum front panel suitable for mounting of any accessory control like badge reader, dialer number, interphone and so on (no application on aluminum panel at our expense). It can also be fitted with a panel suitable for the accommodation of a traffic light, 3 lights approved. Elegant, functional and innovative design, the totem O & O appears to be a true subject of street furniture.



Hat light at 360 °, formed by a ring of high brightness LED, green when the bollard is to be lowered and red, when lifted. The light LED ring flashes when the drive units are in motion. Complete with buzzer during the movement of the equipments connected to it.

TOTEM complete with approved traffic lights at three lights.

Lower module with and without hat bright LED.



ACCESSORIES description	MODEL	DK/L 500	DK/L 700	DAKOTA Ø210-700	DAKOTA Ø210-700	DEFENDER Ø273-700	EASY Ø115-500	EASY Ø200-700	TOTEM
ANTIF: Anti theft kit for DAKOTA and DEFENDER automatic bollards	ANTIF			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
BATT-DS: Electrical relay that maintains cylinder raised	BATT-DS			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RES-RISC DS/200V: Professional heater with thermal probe	RES-RISC DS/200V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
CEM: Emergency button	CEM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SOS: Sirens detector	SOS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MAK-2: 2 channel metal masses detector	MAK-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SPIRA: magnetic loop	SPIRA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DIMA: DAKOTA predisposition template	DIMA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
SEM-2L R-V: Traffic light 2 lights Ø 100 mm	SEM-2L R-V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SEM-3L R-R-V: Traffic light 3 lights Ø 100 mm	SEM-3L R-R-V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FASCIA/ADSV 10: customized retro reflecting strip to apply on bollards stem. Film skin process including	FASCIA/ADSV 10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
TOTEM: Modulable road cabinet for bollards management	TOTEM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TOTEM LUCI: 360° red and green led light TOTEM cap	TOTEM LUCI								<input type="checkbox"/>
TOTEM DIMA: TOTEM template with wall fasteners	TOTEM DIMA								<input type="checkbox"/>
TOTEM-pan/sem: 2 or 3 light traffic light pannel, prefitted for TOTEM	TOTEM-pan/sem								<input type="checkbox"/>
		AVAILABLE <input type="checkbox"/>							TO BE REQUEST AT ORDER TIME <input type="checkbox"/>



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Reg. n. 308
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APPROVED AUTOMATIC BOLLARDS “DK/L”

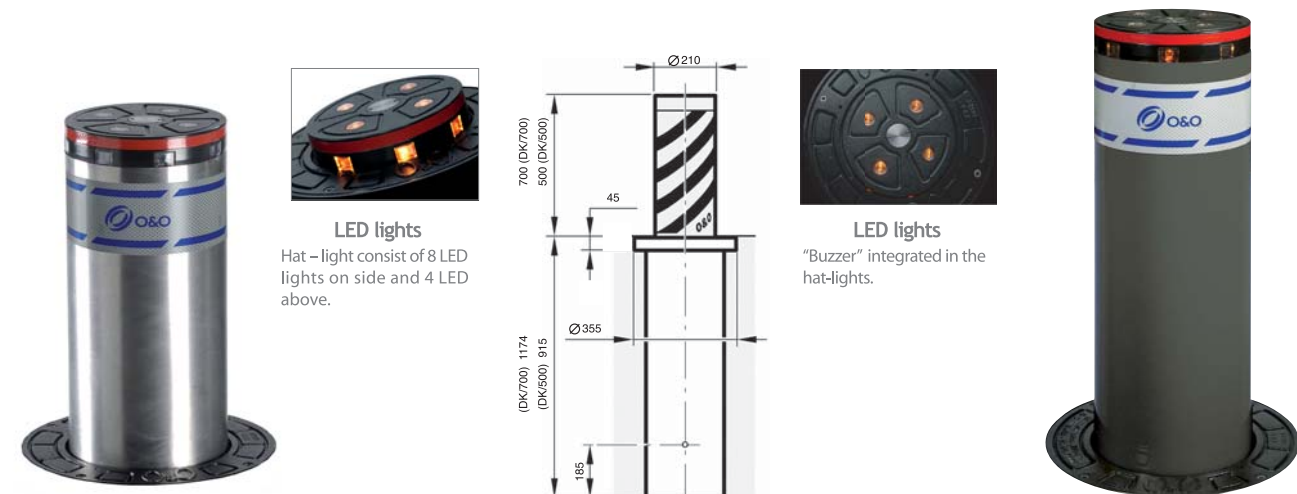
DK/500L

DK/700L



Primary objective of bollards approved, is to allow a return to the livability and safety by protecting communal areas such as squares (impeding the machines transition), hospitals, embassies, public building. The bollards have been approved by the Ministry of Transport and appear to be an elegant solution, effective and functional for the above problems. The bollards DK/500L and DK/700L are characterized by 4 key features

- REVERSIBILITY:** very strong on the need for a sudden and spontaneous reduction in the absence of current.
- STATIC LOAD AND DYNAMIC LOAD:** high accentuated in the approved model as it has to support high weigh and possible shocks due heavy traffic (all our bollards are certified by the Ministry of Transport and are subject to crash testing to certify the ability to dynamically load and breakthrough resistance).
- VISIBILITY:** obtained through the application on the entire surface of stem at approved light reflectant paper. In addition, the Dakota has gifted by a hat - light LED high power visual at night and by day.



MOD. DK/500 L INOX

Electromechanical bollard Ø210 mm H:500 mm with AISI 304 inox stem and H: 100 mm approved light reflectant paper.

MOD. DK/700 L

Electromechanical bollard Ø210 mm H:500 mm with grey RAL 7022 painted stem and H: 100 mm approved light reflectant paper.

	DK/500L	DK/700L
SUPPLY VOLTAGE	230V±10% 50/60 Hz	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous	Spontaneous
OUTSIDE CONTROL UNIT	mod. CDK	mod. CDK
WORK TYPE	Max. 1500 Day maneuvers	Max. 1500 Day maneuvers
LIFT-UP TIME (Sec.)	6"	9"
PROTECTION LEVEL	IP 67 (NEMKO certification)	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	10.500 JOULE*	10.500 JOULE*
BREAK-IN RESISTANCE	400.000 JOULE	400.000 JOULE
WORKING TEMPERATURE	-15° C +60° C	-15° C +60° C
MOVEMENT	With slowing down limit	With slowing down limit

JOULE* : Energy generated by impact of a vehicle
(Ex: vehicle weighing 1.000 Kg that traveling at 50 Km/h, develops an energy of ~ 100.000 Joules upon impact).



AUTOMATIC BOLLARDS “DAKOTA”

DAKOTA Ø 210/500 LIGHT

DAKOTA Ø 210/700 LIGHT

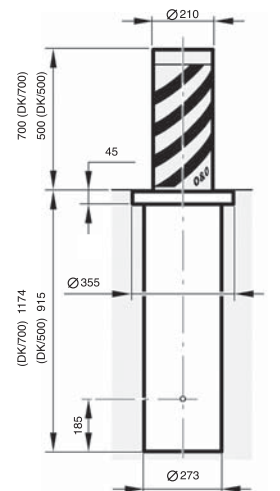
The primary target of this realization is protection and defense of sensitive sites such as shops, jewelers, prestigious building inputs, hotels and so on. On each one of these DAKOTA, there is the possibility of applying H:100 mm light reflectant paper on painted stem colour grey RAL 7022, or you can have the stem in stainless steel AISI 304. All these solutions can be integrated with hat - light LED high power visual at night and by day (DK Ø210-500 LIGHTS and DK Ø210-700 LIGHTS).



DAKOTA Ø 210/500 LIGHT INOX



Hat – light consist of 8 LED lights on side and 4 LED above



DAKOTA Ø 210/500

	DAKOTA Ø 210/500
SUPPLY VOLTAGE	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous
OUTSIDE CONTROL UNIT	mod. CDK-STD
WORK TYPE	Max. 1500 Day maneuvers
LIFT-UP TIME (Sec.)	6"
PROTECTION LEVEL	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	8.000 JOULE*
BREAK-IN RESISTANCE	400.000 JOULE
WORKING TEMPERATURE	-15° C +60° C
MOVEMENT	With slowing down limit

JOULE* : Energy generated by impact of a vehicle
(Ex: vehicle weighing 1.000 Kg that traveling at 50 Km/h, develops an energy of ~ 100.000 Joules upon impact).



DAKOTA Ø 210/700 LIGHT VERN

DAKOTA Ø 210/700

	DAKOTA Ø 210/700
SUPPLY VOLTAGE	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous
OUTSIDE CONTROL UNIT	mod. CDK-STD
WORK TYPE	Max. 1500 Day maneuvers
LIFT-UP TIME (Sec.)	9"
PROTECTION LEVEL	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	8.000 JOULE*
BREAK-IN RESISTANCE	400.000 JOULE
WORKING TEMPERATURE	-15° C +60° C
MOVEMENT	With slowing down limit

DEFENSE AUTOMATIC BOLLARD

DEFENDER Ø 273/700

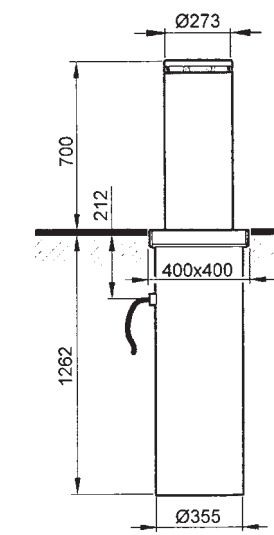
Primary objective of this deterrent is put in a safe way to access sites or particular interest or as a strategic military barracks, embassies, ministries who, because of their importance, deserve an effective barrier to their entry. DEFENDER is a bollard completely watertight (as all the others) by the NEMKO certification IP67, can work in any weather conditions thanks to its size, can withstand a 3000Kg vehicle traveling at a speed of 70 km / h . DEFENDER also has a hat - light LED high power visual day and night.



DEFENDER Ø 273/700



Steel stem 6 mm thick, cataphoresis treatment and color gray sable painted.



	DEFENDER Ø 273/700
SUPPLY VOLTAGE	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous or blocked from pad battery
OUTSIDE CONTROL UNIT	mod. CDK-STD
WORK TYPE	Max. 100 Day maneuvers
LIFT-UP TIME (Sec.)	9"
PROTECTION LEVEL	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	100.000 JOULE*
BREAK-IN RESISTANCE	600.000 JOULE
WORKING TEMPERATURE	-15° C +60° C
MOVEMENT	With slowing down limit

JOULE* : Energy generated by impact of a vehicle
(Ex: vehicle weighing 1.000 Kg that traveling at 50 Km/h, develops an energy of ~ 100.000 Joules upon impact).

STANDARD AUTOMATIC BOLLARDS “EASY”

EASY Ø115/500

EASY Ø200/700

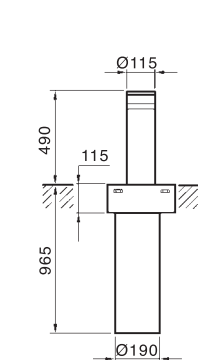
Economy and quality. These are the roots of the new bollards EASY. born after a careful market investigation, thorough study on the techniques of design and crafting the details, which have enabled the creation of a simple deterrent, responding to customer needs and requirements does not ignore those qualities that have always distinguished the O & O products. All at a competitive price. EASY is produced in two models: the first, EASY Ø115-500, leads Ø115 mm stem diameter up 500 mm with light reflectant paper on the stem to improve its visibility. This model not support hat - light. The second model called EASY Ø200-700, leads Ø200 mm stem diameter up 700 mm with light reflectant paper on the stem and led hat-light ensuring complete visibility at night and by day.



EASY Ø115/500



H: 50 mm light reflectant strip on painted stem grey RAL 7022 color.

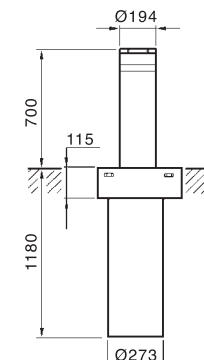


	EASY Ø 115/500
SUPPLY VOLTAGE	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous
OUTSIDE CONTROL UNIT	mod. CDK-ES
WORK TYPE	Max. 500 Day maneuvers
LIFT-UP TIME (Sec.)	7"
PROTECTION LEVEL	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	6.000 JOULE*
BREAK-IN RESISTANCE	70.000 JOULE
WORKING TEMPERATURE	-20° C +60° C
MOVEMENT	With slowing down limit

JOULE* : Energy generated by impact of a vehicle
(Ex: vehicle weighing 1.000 Kg that traveling at 50 Km/h, develops an energy of ~ 100.000 Joules upon impact).



H: 50 mm light reflectant strip on painted stem grey RAL 7022 color. Equipped with hat - light LED high power visual at night and by day.



EASY Ø 200/700

	EASY Ø 200/700
SUPPLY VOLTAGE	230V±10% 50/60 Hz
HAND MANOEUVRE	Spontaneous
OUTSIDE CONTROL UNIT	mod. CDK-ES
WORK TYPE	Max. 500 Day maneuvers
LIFT-UP TIME (Sec.)	9"
PROTECTION LEVEL	IP 67 (NEMKO certification)
DYNAMIC LOAD (CRASH-TEST)	10.000 JOULE*
BREAK-IN RESISTANCE	250.000 JOULE
WORKING TEMPERATURE	-20° C +60° C
MOVEMENT	With slowing down limit

JOULE* : Energy generated by impact of a vehicle
(Ex: vehicle weighing 1.000 Kg that traveling at 50 Km/h, develops an energy of ~ 100.000 Joules upon impact).