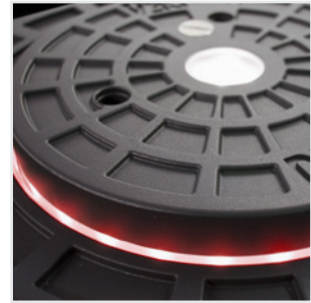


ROCK

Hydraulic retractable bollard height 700 mm

Hydraulic pump integrated in the top section, to assist with maintenance activities

Retro reflective film with high-luminous efficacy



Removable structure with double anti-corrosion treatment: cataphoresis and thermal painting black polyester

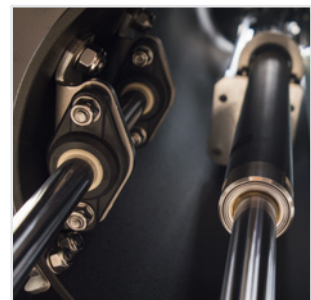


NETLINK OPERATOR

This operator is compatible with the NETLINK System and can be programmed with DEAIInstaller and NETBOX

(Only versions with NET230N)

Linear guide system with chrome-plated steel cylinders



Removable structure with shock resistance up to 138KJ



Compatible with the Apps



230V ~ bollard without control board



COD.	Art.					OTHER CHARACTERISTICS
651000	ROCK		274mm	700mm	6mm	<ul style="list-style-type: none"> Removable structure, cataphoresis treatment Emergency manual release LED diffusers with integrated buzzers 2 magnetic limit switches Walking surfaces in aluminium, cataphoresis, micaceous grey Retro-reflecting film with high-luminous efficacy 15m cable (only for art. ROCK/CABLE) Framework with cataphoresis treatment to be cemented (art. ROCK/B) optional
651001	ROCK/CABLE		274mm	700mm	6mm	

All models: framework art.ROCK/B not included

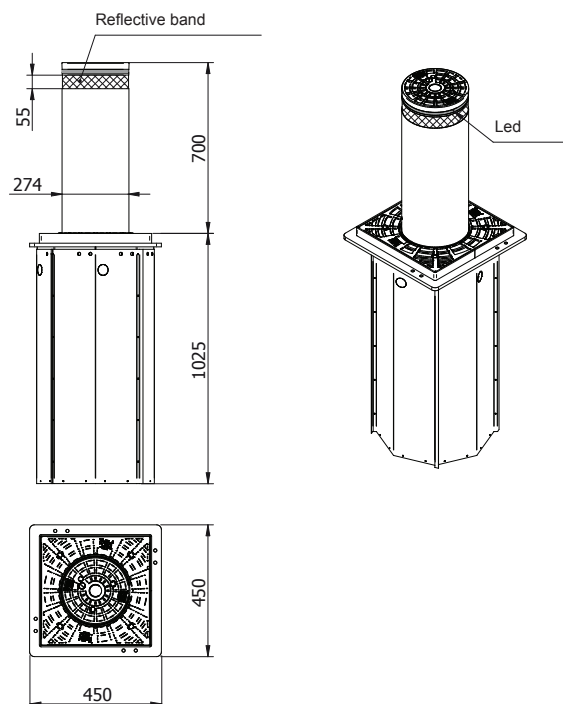
Fixed bollard

COD.	Art.					OTHER CHARACTERISTICS
NEW 651020	ROCK/F		274 mm	700 mm	4 mm	<ul style="list-style-type: none"> Fixed bollard with cataphoresis treatment Retro-reflecting film with high-luminous efficacy

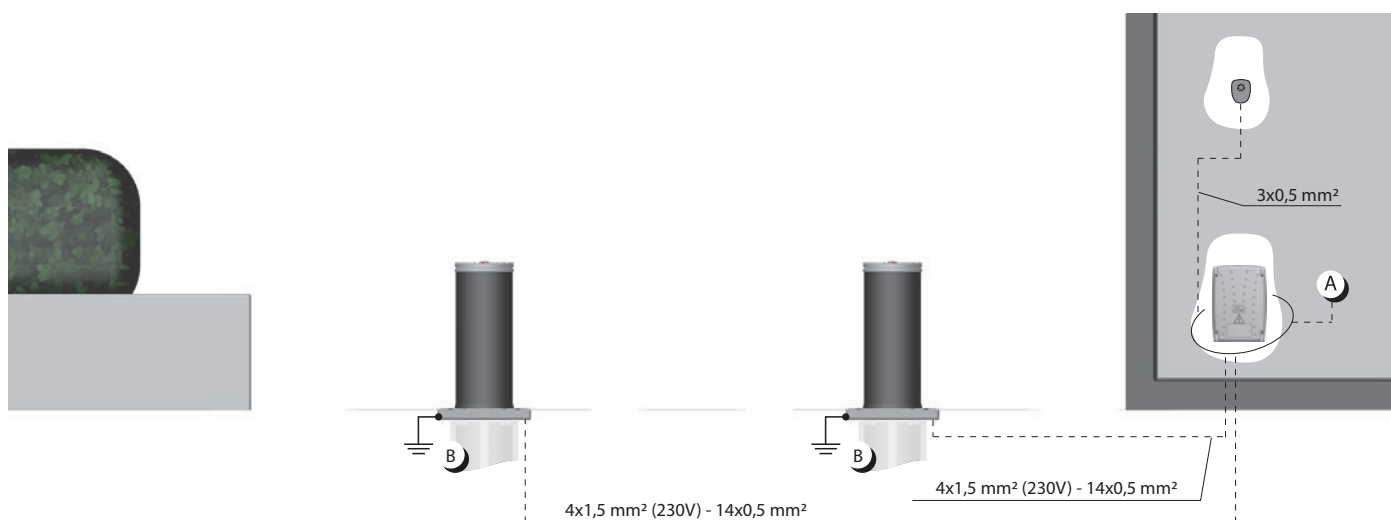
All models: Foundation base art.ROCK/FB not included

TECHNICAL INFO	ROCK	ROCK/CABLE
Movement	Hydraulic	
Height	700 mm	
Diameter	Ø274mm (±2mm)	
Material	Steel Fe 360	
Treatment	Cataphoresis and polyester powder paint, black	
Ascent time	6 sec	
Descent time	5 sec	
Quick descent time (with solenoid valve and power failure)	1,5 sec	
Usage	Intensive	
N. max cycles in 24h.	2000 (T= 20 ÷ 22°C) - 300 (+ art. ROCK/EL)	
Reflective band	55mm	
Emergency manual manoeuvre	Mechanical unlocking on hydraulic circuit	
Impact resistance	29KJ with clamps ; 40KJ with armor reinforcement	
Crash resistance	29KJ with clamps ; 138KJ with armor reinforcement	
Cable for connection	/	15 m FG16 7x1,5 + 10x0,5
Operating temperature	-15°C + 50°C -25°C + 50°C with heater	
Obstacle detection	Adjustable pressure switch	
Product weight	130 kg	
Hydraulic pump	Power supply 230V+-10% 50/60 Hz	
Power absorption	400 W	
Protection level	IP67	
Capacitor	12,5 µF	
Motor thermal protection	130°C	

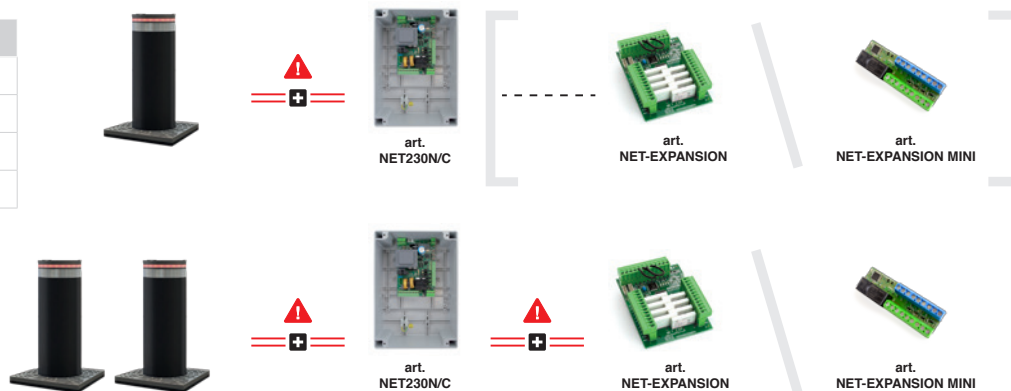
DIMENSIONS



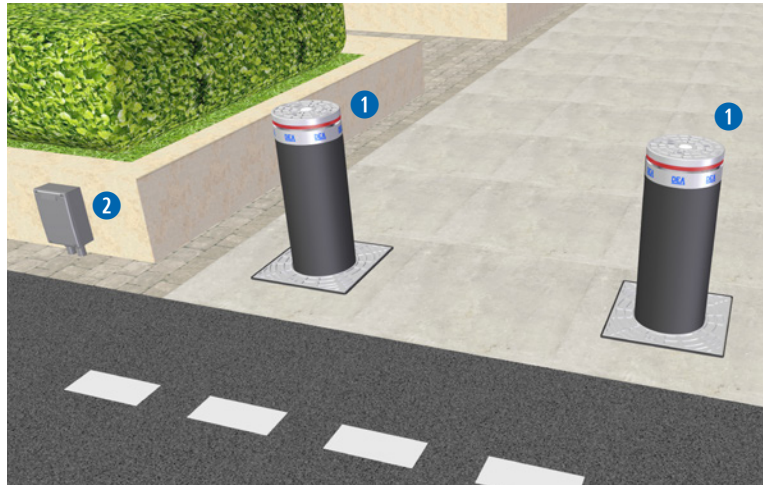
ELECTRICAL DIAGRAM



COD.	Art.
677610	NET230N/C
677611	NET230N/PROBOX
677620	NET-EXPANSION
677622	NET-EXPANSION MINI



EXAMPLE OF A TYPICAL INSTALLATION



1



COD. 651000
Art. ROCK
Hydraulic retractable bollard

2



COD. 677611
Art. NET230N/PROBOX
NET230 control board mounted on plate with cable holders and DIN rail to use on art. STEELBOX



COD. 679210
Art. STEELBOX
Painted steel box with key lock



COD. 667071
Art. LOOP 230/2
Loop detector, 2 channels



COD. 681034
Art. SMFLED230/2
230V led traffic light: red-green lights



COD. 677622
Art. NET-EXPANSION MINI
Mini expansion board, 4 resistive input and 1 NC-NO output, compatible only with NET24N and NET230N

SPECIFIC ACCESSORIES



COD. 677610
Art. NET230N/C
Universal digital control board for 1 or 2 operators, 230V with or without magnetic encoder (with box)



COD. 677611
Art. NET230N/PROBOX
NET230 control board mounted on plate with cable holders and DIN rail to use on art. STEELBOX



COD. 677620
Art. NET-EXPANSION
Expansion board 6 inputs - 8 outputs for control boards NET Series



COD. 677622
Art. NET-EXPANSION MINI
Mini expansion board, 4 resistive input and 1 NC-NO output, compatible only with NET24N and NET230N



COD. 659070
Art. ROCK/B
Framework for bollard art. ROCK Ø=273 h=700mm



COD. 659060
Art. ROCK/RE
Antifreeze heater



COD. 659022
Art. ROCK/LOCK
Safety lock for bollard art. ROCK



COD. 659071
Art. ROCK/C
Manhole close for bollard art. ROCK



COD. 659062
Art. ROCK/EL
Solenoid with power supply cable



COD. 679210
Art. STEELBOX
Painted steel box with key lock



COD. 659091
Art. ROCK/F LED
Lighting kit for ROCK/F with LED circuit+Buzzer, power supply unit and junction box



COD. 659090
Art. ROCK/FB
Foundation base, clamps and base-covering flange for ROCK/F



COD. 667061
Art. LOOP 230/1
Loop detector, 1 channel



COD. 667071
Art. LOOP 230/2
Loop detector, 2 channels



COD. 681034
Art. SMFLED230/2
230V led traffic light: red-green lights



COD. 681035
Art. SMFLED24/2
24V led traffic light: red-green lights