

# ROCK

Hydraulic retractable bollard  
height 700 mm



For collective and  
industrial usage



Available in 230V



# ROCK

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



High visibility thanks to the reflective band and the diffuser with red LED

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



The DE@NET universal control board makes this operator compatible with NETLINK System.



Compatible with NETCOM, the device for installation maintenance and remote control management!



Linear guide system with chrome-plated steel cylinders

Suitable for intensive usage thanks to the hydraulic circuit power.

The version with cable simplifies the wiring phase and ensures watertight integrity



## Models

### 230V ~ bollard without control board



COD.	Art.					OTHER CHARACTERISTICS
651001	ROCK/ CABLE		274 mm	700mm	6mm	<ul style="list-style-type: none"> <li>• Removable structure, cataphoresis treatment</li> <li>• Emergency manual release</li> <li>• LED diffusers with integrated buzzers</li> <li>• 2 magnetic limit switches</li> <li>• Walking surfaces in aluminium, cataphoresis, micaceous grey</li> <li>• Retro-reflecting film with high-luminous efficacy</li> <li>• 15m cable (only for art. ROCK/CABLE)</li> <li>• Framework with cataphoresis treatment to be cemented (art. ROCK/B) not included</li> <li>• Colour: NERO SIDERALE PERL</li> <li>• <b>Electrovalve for quick descent in case of power failure (only item ROCK/CABLE/EL)</b></li> </ul>
651002	ROCK/ CABLE/EL		274 mm	700 mm	6 mm	

All models: framework art.ROCK/B not included

### Fixed bollard

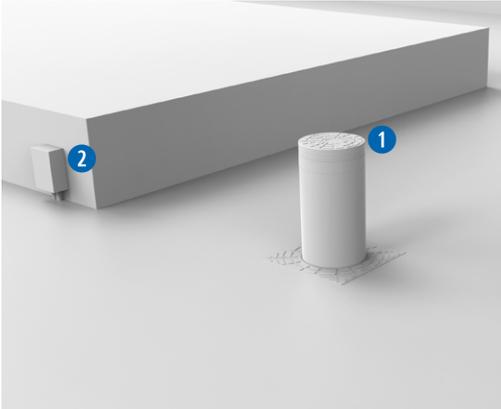
COD.	Art.					OTHER CHARACTERISTICS
651020	ROCK/F		274 mm	700 mm	4 mm	<ul style="list-style-type: none"> <li>• Fixed bollard with cataphoresis treatment</li> <li>• Retro-reflecting film with high-luminous efficacy</li> </ul>

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

Scan the QR CODE to view all the content we have created on this operator



## EXAMPLE OF A TYPICAL INSTALLATION



**1**

**COD. 651001**  
**Art. ROCK/CABLE**  
Hydraulic retractable bollard

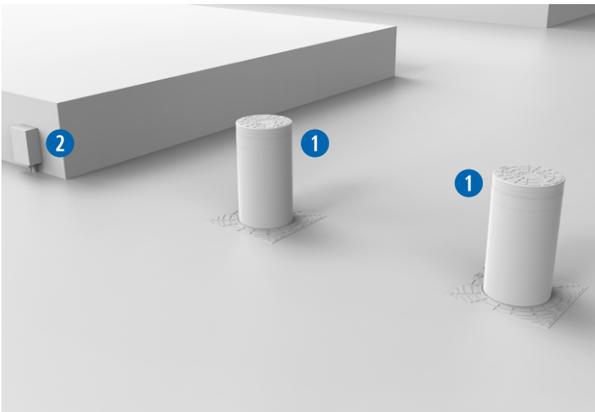
**COD. 659070**  
**Art. ROCK/B**  
Framework for bollard art. ROCK Ø=273 h=700mm

**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



**1**

**COD. 651001**  
**Art. ROCK/CABLE**  
Hydraulic retractable bollard

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Framework for bollard art. ROCK Ø=273 h=700mm

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

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

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

## 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. 659061**  
**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. 659064**  
**Art. ROCK/EL V2**  
Solenoid and valve for quick descent, power supply cable included

**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

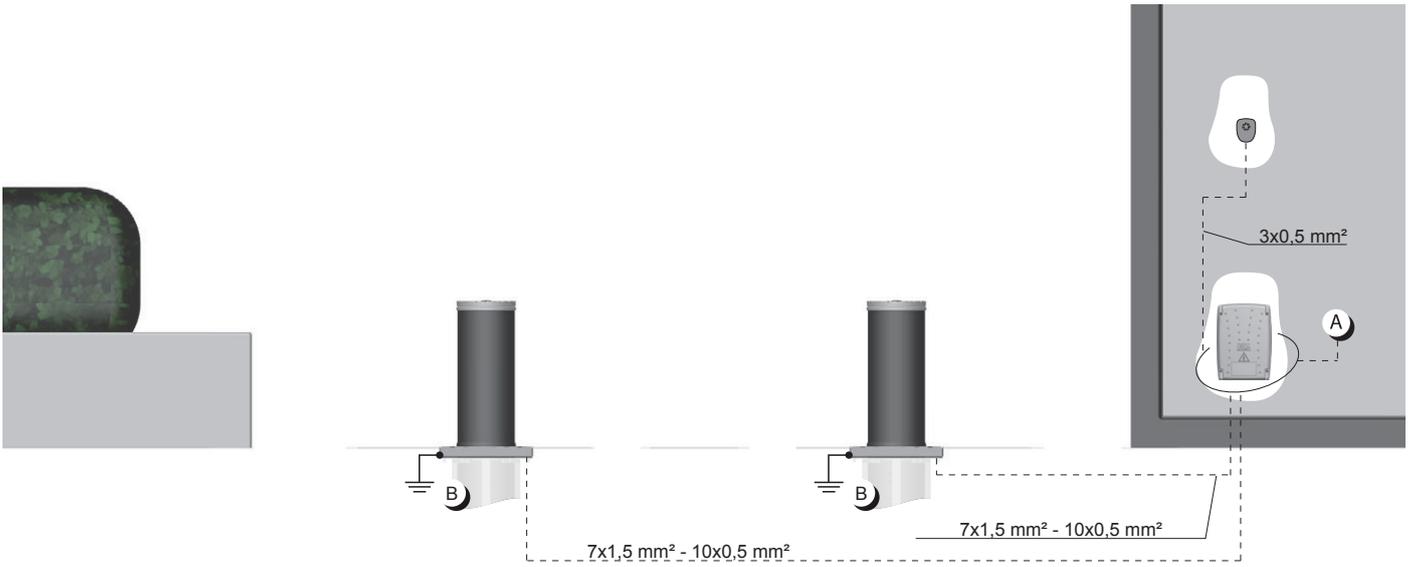
**COD. 681035**  
**Art. SMFLED24/2**  
24V led traffic light: red-green lights

## Technical info

TECHNICAL INFO	ROCK/CABLE	ROCK/CABLE/EL
<b>Movement</b>	Hydraulic	
<b>Height</b>	700mm	
<b>Diameter</b>	Ø274mm (±2mm)	
<b>Material</b>	Steel Fe 360	
<b>Treatment</b>	Cataphoresis and polyester powder paint, black	
<b>Ascent time</b>	6 sec	
<b>Descent time</b>	5 sec	
<b>Quick descent time (with solenoid valve and power failure)</b>	1,5 sec	
<b>Usage</b>	Intensive	
<b>Reflective band</b>	50mm	
<b>Emergency manual manoeuvre</b>	Mechanical unlocking on hydraulic circuit	
<b>Impact resistance</b>	29KJ with clamps ; 40KJ with armor reinforcement	
<b>Crash resistance</b>	29KJ with clamps ; 138KJ with armor reinforcement	
<b>Cable for connection</b>	15 m FG16 7x1,5 + 10x0,5	
<b>Operating temperature</b>	-15°C + 50°C -25°C + 50°C with heater	
<b>Obstacle detection</b>	Adjustable pressure switch	
<b>Product weight</b>	130 kg	
<b>Hydraulic pump</b>	Power supply 230V±10% 50/60 Hz	
<b>Power absorption</b>	400 W	420 W
<b>Protection level</b>	IP67	
<b>Capacitor</b>	12,5 µF	
<b>Motor thermal protection</b>	130°C	



# ELECTRICAL DIAGRAM



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



art.  
NET230N/C



art.  
NET-EXPANSION



art.  
NET-EXPANSION MINI



art.  
NET230N/C



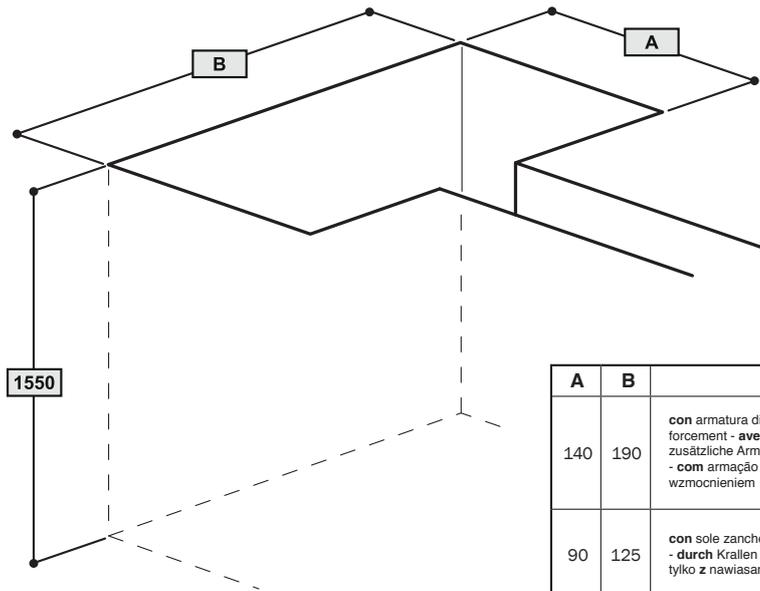
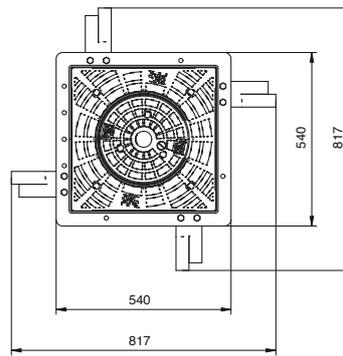
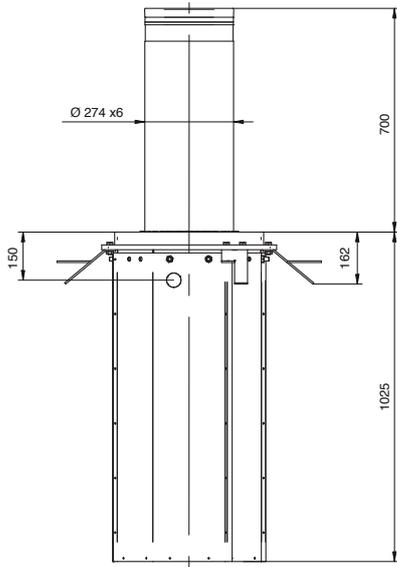
art.  
NET-EXPANSION



art.  
NET-EXPANSION MINI



## Dimensions



A	B	
140	190	<b>con</b> armatura di rinforzo - <b>with</b> additional reinforcement - <b>avec</b> l'armature additionnelle - <b>durch</b> zusätzliche Armierungseisen - <b>con</b> soporte adicional - <b>com</b> armação adicional - <b>z</b> dodatkowym wzmocnieniem
90	125	<b>con</b> sole zanche - <b>with</b> anchor bolts - <b>avec</b> le barres - <b>durch</b> Krallen - <b>con</b> grapas - <b>com</b> braçadeiras - <b>tylko z</b> nawiasami kłamirowymi



# DEAuser



DEAuser is the app for **private users** that allows activation of automation at **close proximity** via Bluetooth.

By installing the NET-NODE on all devices with NETLINK technology, users can control their automations through their smart devices.

To be used with:



Art. NET-NODE 2.0  
Cod. 677642



# DEAinstaller



DEAinstaller is the App dedicated to the **professional installer** and allows Installers to program and manage DEA automations on-site in a simple and intuitive way from their smart devices.

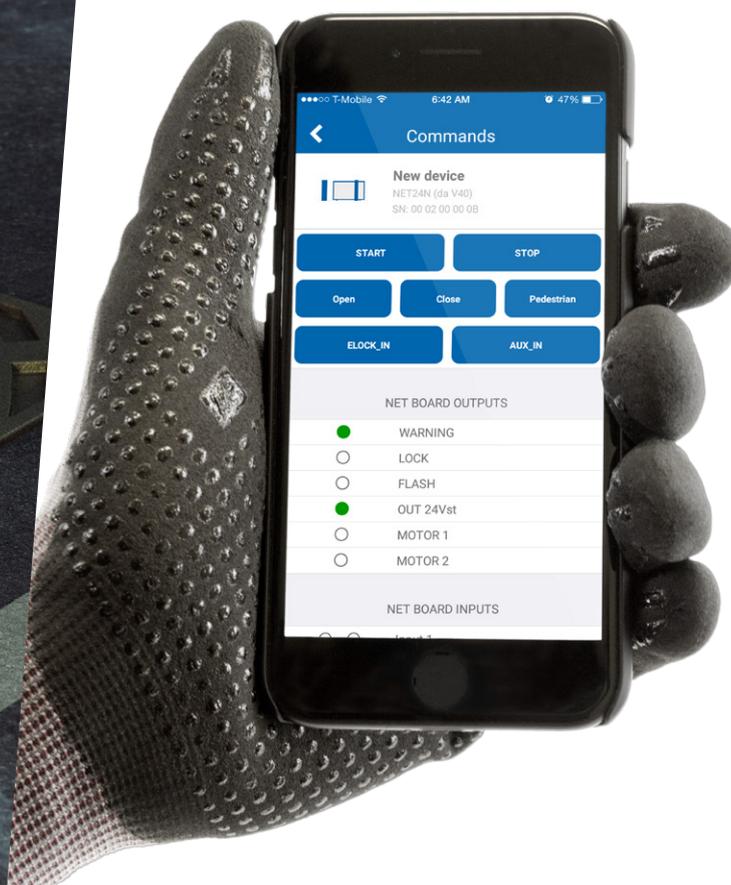
If you use it with the NET-NODE you can:

- ✓ keep a **data backup** of all installations
- ✓ easily adjust the **parameters** of control boards
- ✓ update the **firmware**
- ✓ program the **maintenance**
- ✓ manage or customise the **remotes**
- ✓ read **technical manuals** or have a look at the **electrical connections**
- ✓ control the **inputs** and **output** of the control boards
- ✓ **control** the automation with the App

To be used with:



Art. NET-NODE 2.0  
Cod. 677642





**LINEAR XS**  
cod. 662080



**LINEAR**  
cod. 662044



**COVER/2**  
cod.681060



**LINEAR SHIELD**  
cod. 662047



**PILLY 60 -120**  
cod. 664000 - 664010



**DIGIPRO**  
cod. 663310



**DIGISLIM**  
cod. 663311



**GT-KEY**  
cod. 663090

NEW



**DIGIRAD/N**  
cod. 663320



**LOOP230/1 - /2**  
cod. 667061 - 667071



**GTI2-GT14**  
cod. 672635 - 672645



**GTI2M-GT14M**  
cod. 672603 - 672613



**SMFLED-230/2 - 24/2**  
cod. 681034 - 681035

## #safeasyoulike!

### Non-copyable remotes!

GTI remotes are multi-function. They have three coding possibilities: DIP SWITCH, Rolling Code and D.A.R.T. the new DEA advanced coding.

You can customise the code of the remotes to guarantee the maximum security to your customer.

- D.** DEA
- A.** Advanced
- R.** Rolling Code
- T.** Transmission

Looking for **total safety**?  
With **NET-BOX** each installer can customise the code of your GTI remotes.



## #colourasyoulike!

### Choose your favorite colour!

GTI remotes can be customised with button kits in seven colours: green, light green, blue, pink, yellow, orange and purple.



**Note:** button kits are supplied in packs of 5. The remote must be ordered separately.



# NETLINK

is our technology applied to DEA devices for the smart management of your installations, both **locally** and **remotely**.

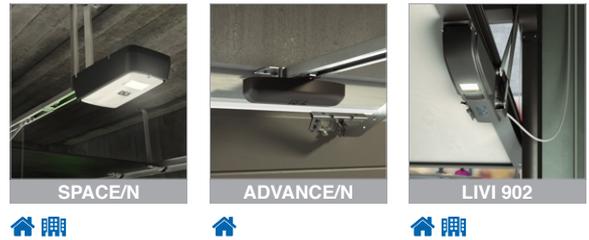


## Our range

### Automations for sliding gates



### Automations for sectional doors



### Automations for swing gates



### Automations for industrial gates



### Barriers



### Bollards



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