## NYOTA 115

Electro-mechanical sliding gate operator

C

## INSTRUCTIONS FOR THE INSTALLATION OF THE AUTOMATION

## NYOTA 115

## FOR A CORRECT INSTALLATION AND GOOD PERFORMANCE OF NYOTA 115 READ THE INSTRUCTIONS THAT ARE OUTLINED IN THIS MANUAL AND KEEP TO THE DIAGRAMS. <br> Nyota 115 is an extremely versatile system for sliding gates up to $1^{\prime} 200 \mathrm{Kg}$ gate weight. It is available in $0.37 \mathrm{KW}(0.5 \mathrm{HP}$ ) single- and threephase versions and $0.73 \mathrm{KW}(1.0 \mathrm{HP})$ single and three-phase versions. <br> It is a strong and reliable automation. It has a torque control device that can be manually adjusted; worm and gear are made of bronze and steel and are supported by bearings, all these parts in an oil bath. A manual overriding system allows manual operations of the gate in emergency events like power failure.

## POINTS TO CHECK WITH THE GATE

Check that the gate track is well fixed to a solid foundation to prevent deformation which would result into an unbalanced travelling of the gate. IMPORTANT: Make sure that gate stops are fixed in the fully open and fully closed gate positions so that the gate does not over travel the permitted limit and go out of the upper guide.
IMPORTANT: Make sure that, once at the end of the permitted travel, the gate does not hit the gate posts or specially fitted gate stops to avoid damages to its structure.

## FITTING NYOTA 115 ONTO THE FIXING BASE PLATE

- The first operation is to fix the fixing bracket to the ground and make sure that it is perfectly levelled. Fixing distances are as indicated (pic.1). Fixing is by setting the plate into a concrete foundation.
- Remove the cover of NYOTA 115 by loosening the fixing screw-A (or by the optional key): pull the cover outwards and almost simultaneously upwards (pic.2).
- NYOTA 115 is fixed to the bracket by four screws-B (pic.3)



## RACK FITTING OPERATIONS

IMPORTANT: When installing NYOTA 115 it is recommended to insert $\mathbf{2 ~ m m}$ shims between the fixing bracket and the NYOTA 115 base plate (NYOTA 115 perfectly levelled) before welding the rack to the gate, so that the rack and gear mesh each other with an adequate clearance after that the shims have been removed (pic.3).

- Temporarily fix NYOTA 115 onto the fixing bracket, perfectly levelled, by the four fixing screws-B (pic.3).

- How to release NYOTA 115 from the gate and disconnect the driving gear: remove the cover (pic.2) and unscrew the hexagonal screw (by 1 or 2 turns maximum) by the release spanner E 13 supplied with the equipment (pic.4).

- This explains how to fix the rack. Release the system by the provided E 13 spanner so that the driving gear of NYOTA 115 can run idle (pic. 4). (The gate can be freely moved by hand, the operator Nyota 115 standing in idle position).
- Temporarily clamp the rack to the gate so that it can adequately mesh the driving gear (The 2 mm shims still fitted between Nyota 115 base plate and the fixing bracket). Use a spare rack bar to make sure that junctions have the same rack pitch (pic.7).
- Spot weld an angle bracket to the gate first, then the rack in the same way (if the welding type has been supplied), or fix it to the gate by screws (if either the nylon or galvanized type with fixing eyes has been supplied) (pic.6).
IMPORTANT: Before welding or fixing permanently any component, make sure that the rack can mesh the driving gear of NYOTA 115 so that the whole system can be smoothly run by hand the full gate travel open and close without any friction, Nyota 115 still in idle position.
- Remove the $\mathbf{2 ~ m m ~ s h i m s ~ o n l y ~ a f t e r ~ h a v i n g ~ f i x e d ~ t h e ~ r a c k . ~ A n ~ a d e q u a t e ~ c l e a r a n c e ~ b e t w e e n ~ r a c k ~ a n d ~ g e a r ~ h a s ~ t h u s ~ b e e n ~ a c h i e v e d ~ ( p i c . 3 ) . ~}$


- Fix the limit switch striking plates as shown in the diagram: the distance between NYOTA 115 and the striking plate front surface line must be 15-20 mm approx. (pic. 5).
IMPORTANT: the gate must stop before hitting the gate post or special gate stops to prevent any damage to its structure.


## ELECTRICAL CONNECTIONS

to the electronic control panel:

- Voltage supply, electric motor, flashing lamp require $1.5 \mathrm{~mm}^{2}$ cables, which must not exceed a 50 m distance. For greater distances the recommended cable square section is $2 \mathrm{~mm}^{2}$ (pic.8).
- Limit switches, photocells, keyswitch, push button switch and accessories: $1 \mathrm{~mm}^{2}$ cables can be used for these items (Pic.8). - The safety pneumatic edge is to be fitted to the gate edge and is connected to the control box by a cable to be automatically rewound to take up the slack. A remote-controlled switch can be fitted instead, series connected with the limit switch or the photocell receiver.
- The electronic control panels type ELPRO 10 PLUS CEI and ELPRO 14 PLUS (for double bi-parting sliding gates only) are pre-set for all required operations, automatic or semi-automatic, and are fitted with line relays and fault-detecting led indicators (pic. 10 and 12). IMPORTANT: Before connecting the system to the mains, position the voltage change-over switch to coincide with the site specifications (either 230 V or 400 V ); the switch is fitted onto the main boards of ELPRO 10 PLUS CEI and ELPRO 14 PLUS (Pic. 10 and Pic.12). An option is available where the control panel ELPRO 12 PLUS is incorporated in the operator ( 230 V single-phase only); for the electrical connections follow the diagram pic. 11 (n.w. the limit switches and the electric motor are pre-wired).
- IMPORTANT: Fit the system with a junction box where all cables can be pre-terminated.

- NYOTA 115 is fitted with an external safety microswitch (1) which disconnects the low voltage circuit whenever the operator cover is removed; on request an extra internal safety microswitch (2) can be fitted to ELPRO 12 PLUS control box in order to disconnect the 230 V supply when the lid of the control box is removed. To ensure the correct functioning of the system in case the a.m. parts are removed, make sure that they are put back to the original position to allow the respective contacts to be properly closed (pic.9).
the gate opener
Made in ltaly



General description: the electronic control panel Elpro 10 Plus CEI, new generation, is designed to operate sliding gates. Power supply is $230 / 400 \mathrm{~V}$ singlephase and three-phase. Built in full compliance with BT 93/68/CE Low Voltage and EMC 93/68/CE Electro-Magnetic Compatibility Regulations. Fitting operations are recommended by a qualified technician in conformity to the existing safety standards. The manufacturing company declines any responsability for incorrect handling and application; also, it reserves the right to change or update the control panel any time. Failure to follow installation regulations may result in serious damage to property and persons.

## PLEASE NOTE:

- The control panel must be installed in a sheltered, dry place, inside the box provided with it.
- Make sure that the power supply to the electronic programmer is $230 \mathrm{~V} \pm 10 \%$ or $400 \mathrm{~V} \pm 10 \%$
- Make sure that the power supply to the Electric Motor is $230 \mathrm{~V} \pm 10 \%$ or $400 \mathrm{~V} \pm 10 \%$
- For distances of over 50 metres we recommend using electric cables with bigger sections.
- Fit the mains to the control panel with a 0.03A high performance circuit breaker.
- Use $1.5 \mathrm{~mm}^{2}$ section wires for voltage supply, electric motor and flashing lamp. Maximum recommended distance 50 m .Use 1 mm² section wires for limit switches, photocells, push-buttons/key-switch and accessories.
- Bridge terminals 1 and 2 if no photocells are required.
- Bridge terminals 3 and 6 if no key- or push-button switches are required.
N.W: To fit extra accessories such as lights, CCTV etc. use only solid state relays to prevent damages to the microprocessor.


## Dip-Switch:

1= ON. Photocells. Stop while opening $2=$ ON. Radio. No reversing while opening
$3=0 \mathrm{~N}$. Automatic closing


4= ON. Preflashing activated
$5=0 N$. Radio. Step by step. Stop in between
6= ON. Dead Man Control (Dip 4=OFF and Dip 3=OFF)
$7=0 \mathrm{~N}$. No lamp on during dwell time
$8=0$ FF. No function

## In case of failure of the panel:

- Make sure that the power supply to the electronic programmer is $230 \mathrm{~V} \pm 10 \%$ or $400 \mathrm{~V} \pm 10 \%$
- Make sure that the power supply to the Electric Motor is $230 \mathrm{~V} \pm 10 \%$ or $400 \mathrm{~V} \pm 10 \%$
- Check fuses
- Check photocells if contacts are normally closed
- Check all NC contacts
- Check that no voltage drop has occurred from the control panel to the electric motor


## Led Status Indication:

L1 = 230V 50Hz power supply. Alight
L2= Photocells, if obstructed light goes off
$\mathrm{L} 3=$ Open. Alight whenever an Open pulse is given
L4= Close. Alight whenever a Close pulse is given
L5 = Stop. It goes off on pulsing Stop
L6= Radio. It goes on by pressing a transmitter button
L7= Gate Status; it flashes on gate opening
L8= Limit switch Close; off when gate is closed
L9 = Limit switch Open; off when gate is open
L10 $=$ It stays on for a time equal to the time set on T4

LOW VOLTAGE ELECTRICAL CONNECTIONS


DIP-SWITCH 1:

| ON: Photocells stop gate while opening, reverse it on closing once obstacle is removed |
| :---: |
| 1 OFF: Photocells do not stop gate while opening, reverse it on closing in case of an obstacle |





## 24V 3W Indication Light:

Light $\mathbf{O N}=$ Open gate
Light OFF = Closed gate
Flashing (fast) $0.5 \mathrm{~s}=$ Closing gate
Flashing (normally) $1 \mathrm{~s}=0$ pening gate
Flashing (slowly) $2 \mathbf{s}=$ gate is stopped


Courtesy light:
Connect a 12VAC Relay (T4 Trimmer Time from 2s to 255s) to operate a 230V Iamp


## Electric lock:

Set the T4 Trimmer Time to the lowest value. The electric lock is excited for 2 seconds


## ELECTRIC POWER CONNECTIONS




## OPERATING MODES

## Automatic / Semiautomatic:

Automatic Operation: any pulse opens the gate, the gate stays open as long as the Dwell time expires as set by T 2 trimmer, then it closes automatically, no pulsing is required.

Semi-automatic Operation: any pulse opens the gate that stays open. A second pulse to Close is required
 for the gate to close.

## Pedestrian Opening:




## Hold on switched (Deadman) control:

Open and Close operations are achieved "by holding a switch on" (no relay self-holding is involved) therefore a phisical attendance is required to keep the gate opening or closing until either the button or key is released.


Remote Controlled Operations Excluded during Dwell Time on Automatic Mode:
With this setting it is not possible to operate the gate by remote control during the dwell time on automatic mode. DIP-SWITCH 2=0N, 3=0N and 5=0N


## Time clock installation:

How it works: Set the clock to the required time. On the pre-set time the gate is automatically opened and held open. Any further pulsing (even by remote control) is not accepted by the system until the time pre-set by the clock has expired. On expiring and after the pre-set dwell time the gate is closed automatically.
T3 trimmer on to zero, Dip-Switch 3=ON.



General description: the electronic control panel Elpro 12 Plus, new generation, is designed to operate the sliding gate operator Nyota 115. Power supply is 230 V 50 Hz single-phase. Built in full compliance with BT 93/68/CE Low Voltage and EMC 93/68/CE Electro-Magnetic Compatibility Regulations. Fitting operations are recommended by a qualified technician in conformity to the existing safety standards.
The manufacturing company declines any responsability for incorrect handling and application; also, it reserves the right to change or update the control panel any time.
Failure to follow installation regulations may result into serious damage to property and persons.

## PLEASE NOTE:

- The control panel must be installed in a sheltered, dry place, inside the box provided with it.
- Make sure that the power supply to the electronic programmer is $230 \mathrm{~V} \pm 10 \%$
- Make sure that the power supply to the Electric Motor is $230 \mathrm{~V} \pm 10 \%$
- For distances of over 50 metres we recommend using electric cables with bigger sections.
- Fit the mains to the control panel with a 0.03 A high performance circuit breaker.
- Use $1.5 \mathrm{~mm}^{2}$ section wires for voltage supply, electric motor and flashing lamp. Maximum recommended distance 50 m .

Use $1 \mathrm{~mm}^{2}$ section wires for limit switches, photocells, push-buttons/key-switch and accessories.

- Bridge terminals 1 and 2 if no photocells are required.
- Bridge terminals 3 and 6 if no key- or push-button switches are required.
N.W: To fit extra accessories such as lights, CCTV etc. use only solid state relays to prevent damages to the microprocessor.


## Dip-Switch:

1= ON. Photocells. Stop while opening
$2=$ ON. Radio. No reversing while opening
$3=$ ON. Automatic closing
4= ON. Preflashing activated
$5=0 N$. Radio. Step by step. Stop in between
6= ON. Dead Man Control (Dip 4=OFF and Dip 3=OFF)
$7=0 \mathrm{~N}$. No lamp on during dwell time
$8=$ OFF. No function

DIP-SWITCH


## Led Status Indication:

L1 = 230V 50Hz power supply. Alight
L2= Photocells, if obstructed light goes off
L3 $=$ Open. Alight whenever an Open pulse is given
L4= Close. Alight whenever a Close pulse is given
$\mathrm{L} 5=$ Stop. It goes off on pulsing Stop
L6= Radio. It goes on by pressing a transmitter button
$\mathrm{L} 7=$ Gate Status; it flashes on gate opening
L8= Limit switch Close; off when gate is closed
L9 = Limit switch Open; off when gate is open

## In case of failure of the panel:

- Make sure that the power supply to the electronic programmer is $230 \mathrm{~V} \pm 10 \%$
- Make sure that the power supply to the Electric Motor is $230 \mathrm{~V} \pm 10 \%$
- For distances of over 50 metres we recommend using electric cables with bigger sections.
- Check fuses
- Check photocells if contacts are normally closed
- Check all NC contacts
- Check that no voltage drop has occurred from the control panel to the electric motor

RIDIN
Drwg. No. 4086

## LOW VOLTAGE ELECTRICAL CONNECTIONS

DIP-SWITCH 1:


ON: Photocells stop gate while opening ON. reverse it on closing once obstacle is removed

1 OFF: Photocells do not stop gate while opening, reverse it on closing in case of an obstacle


## Button switch:



Limit switch:


## Radio Contact:

- Open/Close (Standard)
- Travel reversing on pulsing
- Step by step


DIP-SWITCH 2 and 5 (NEVER set BOTH of them ON at the same time):

|  |
| :--- |
| 2 |
| ON: Gate is not reversed while opening |
| 2 |

$\square$ ON: Step by step. Stop in between
OFF: Standard operating mode

ed to indicate status o Open - Stop - Close switches


Safety Contact:



## ELECTRICAL POWER CONNECTIONS

Capacitor and Single-phase Motor (230V):


Flashing lamp:


Power supply:


## Courtesy Light 230V max. 100W:



Trimmer R63
 FROM 2 UP TO 255s


## OPERATING MODES

## Automatic / Semiautomatic:

Automatic Operation: any pulse opens the gate, the gate stays open as long as the Dwell time expires as set by R64 trimmer, then it closes automatically, no pulsing is required.

Semi-automatic Operation: any pulse opens the gate that stays open. A second pulse to Close is required for the gate to close.
Trimmer R64

| Dwell Time |
| :--- |
| from 2 to 128s |

## Pedestrian Opening:

Gate in fully closed position; an Open pulse opens the gate a span equals to the time set by Pedestrian Trimmer

$\rightarrow$ Trimmer R62
Trimmer R62 at minimum disactivates Pedestrian Opening
from 3 to 30 s. It can be activated by any pulse
(eg. by remote control) superior to 2 s


## Hold on switched (Deadman) control:

Open and Close operations are achieved "by holding a switch on" (no relay selfholding is involved) therefore a phisical attendance is required to keep the gate opening or closing until either the button or key is released.


## Time Clock Installation (Optional):

How it works: Set the clock to the required times. On the pre-set time the gate is automatically opened and held open. Any further pulsing (even by remote control) is not accepted by the system until the time pre-set by the clock has expired. On expiring and after the preset dwell time the gate is closed automatically. R62 trimmer on to zero, Dip-Switch 3=0N.


DIP-SWITCH No.3=ON Automatic Closing

$\square \mathrm{ON}=$ Automatic Closing
OFF= No Automatic. Semi-automatic 3 closing by pulse


Pedestrian Trimmer R62
set on to zero


General Description: Elpro 14 Plus is an electronic board incorporating a microprocessor to control single- and three-phase operators for bi-parting sliding gates. Power supply is $230 \mathrm{~V} / 400 \mathrm{~V} \pm 10 \% 50 \mathrm{~Hz}$ single-/ or three-phase. it is built in compliance with BT 93/68/CE Low Voltage norms and EMC 93/68/CE norms for the electro-magnetic compatibility. Installation is recommended by a qualified technician in observance of the existing regulations. Incorporated logic functions: automatic or semi-automatic operating modes, pre-flashing/no pre-flashing options, reversing/non reversing options by remote control, electric lock output, pedestrian mode, hold-on-switched (deadman) control, gate status indication by leds. The manufacturer declines any responsability for incorrect handling and applications, and reserves the right to update the instructions and the control board without notice. Failure to observe the installation instructions may result into serious damages to persons and properties.


## Led Status Indication:

$\overline{\mathrm{L} 1}=$ Power supply $230 \mathrm{~V} / 400 \mathrm{~V} \pm 10 \% 50 \mathrm{~Hz}$ alight
L2 = Photocells. If obstructed the led goes off
L3 = Open. It illuminates when an Open pulse is given
L4 = Close. It illuminates when a Close pulse is given
L5 = Stop. It goes off when a Stop pulse is given
L6 = Radio. It illuminates when the remote control is pulsed.
L7 = Gate Status Indication. It flashes while gate is moving
L8 = Limit switch Closing M1 motor. Off when gate is closed
L9 = Limit switch Opening M1 motor. Off when gate is open
L10 = It stays alight as long as the time set on T4 Trimmer
D49= Limit switch Closing M2 motor. Off when gate is closed
D50 = Limit switch Opening M2 motor. Off when gate is open

## Dip-Switch:

$1=\mathbf{O N}$ Photocells stop gate on opening
2= ON Radio. No gate reversing on opening
3= ON Automatic Closing


4= ON Pre-flashing in service
5= ON Radio. Step by step, stop in between
6= ON Deadman Control (Dip 4=OFF and Dip 3=0FF)
7= ON Flashing lamp off on dwell time, automatic mode
8= OFF, blank

## In case the automation fails to start:

- Check power supply to be 230 V or $400 \mathrm{~V} \pm 10 \% 50 \mathrm{~Hz}$
- Check fuses
- Check photocells contacts to be normally closed
- Check all N.C. contacts
- Check that no voltage drop occurs between the board and the electric motor

\section*{LOW VOLTAGE ELECTRICAL CONNECTIONS <br> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |}



## Limit switch:




## Push Button unit Pulin3:



## Courtesy light:

Connect a 12VAC relay (Trimmer T4 from 2s to 255 s ) to operate a 230 V lamp



Trimmer T4
EXT TIME (Electric lock and Courtesy Light) from 2 to 255 s


Drwg. No. 4198

## 

## Single- and three-phase motors:

## Important:

Depending on the site voltage requirements it is absolutely necessary to set both switches accordingly



Trimmer T1
MOTOR RUN TIME OPEN / CLOSE FROM 5 TO 128s


Trimmer T2
DWELL TIME from 5 to 128s

## Flashing light:

Pre-flashing (Dip-Switch 4=ON): Once an Open pulse is given, after 3 seconds M1 motor starts Once the gate is fully closed, the lamp goes on flashing for 3 more seconds.


DIP-SWITCH 4 and 7 .

| $\square$ ON: Pre-flashing <br> OFF: No pre-flashing |
| :--- |
| ON: No flashing with the lamp on <br> Dwell time. Automatic mode <br> 7 OFF: Flashing on Dwell time in Automatic mode option |



## Control board power supply:

Fit the mains to the control board with a 0.03A high sensitivity, magnetic-thermal, differential circuit breaker The board can be supplied $230 \mathrm{~V} 50 \mathrm{~Hz} \pm 10 \%$ Single-phase or $400 \mathrm{~V} \pm 10 \%$ Three-phase. Both switches are to be set to the required voltage.


## FUNCTIONS

## Automatic / Semi-automatic:

Automatic cycle: On pulsing to Open the gate is operated to open, stops for a time equal to the dwell time as pre-set with T2 trimmer, after this time the gate is automatically operated to Close

Semi-automatic Cycle: On pulsing to Open the gate is operated to Open and held in open position. A new pulse is needed for the gate to close.


Trimmer T2
DWELL TIME from 5 to 128 s

DIP-SWITCH 3
$\square^{\mathrm{ON}}=$ Automatic Closing
OFF= No automatic closing
3 Semi-automatic mode

## Deadman Control:

Open and Close operations are by "hold on switched" control (no relay self-holding is involved). The automation is to be attended and the command unit is required to be held switched to achieve gate operation. Any operation is stopped on releasing the button or key.


## Pedestrian Opening:

With the gate in fully closed position, it is possible to open the gate for pedestrians by pulsing to Open with Dip-Switch No.6=0N terminals 3-4:

- a first Open pulse operates Motor 1 to open
- a second pulse operates the other gate to Open

A pulse given to terminals 7-8 (Radio Contact) by the remote control always operates both gates.

Trimmer T3
From 3 to 30 s activated by any commanding pulse (even by remote control), superior to 2 s to M1 Motor


Radio out of service on Dwell time in Automatic Mode option:

ON: No gate travel reversing on Opening
2

In this Mode, any pulse given by Radio remote control during the dwell time in Automatic mode option does not allow any operation with the system . DIP-SWITCH No.2=0N, No.3=0N and No.5=0N


ON: Step by step Stop in between
OFF: Standard operating mode

Time clock: How it works: Set the clock to the required time. On the set time the gate is operated to open and held open. No other operations can be achieved (not even by remote control) until the time set on the clock has expired. On expiring of the clock time and after the dwell time of the system, the gate is automatically operated to close.
Trimmer T3 is to be set on to zero, Dip-Switch No. 3=0N


T3 Trimmer. Pedestrian
to zero value

DIP-SWITCH No.3=ON Automatic Closing


ON= Automatic Closing
$\begin{aligned} & \text { OFF= No automatic closing. } \\ & \text { Semi-automatic option }\end{aligned}$


Drwg. No. 4198

- The limit switch contacts are to be connected as shown in the diagram (pic. 13). 9 is in series with the voltage cut off microswitch No. 1 (pic.9).
When Nyota 115 is on the first running test, and it is realized that the gate is operated in the wrong direction (for instance the gate fails to stop as the limit switch rod is pushed in the same direction), reverse the connections of the electric motor, by changing over live 1 and live 2 (ie. terminal 16 with 18), and those of the limit switches (terminal 8 with 10) (pic.13) in the control box main board, common 9 and 17 remain fixed (pic.14).

NOTE: IN CASE OF MOTOR FAILURE BECAUSE OF POWER SHORTAGE, ADD A $12.5 \mu \mathrm{~F}$ CAPACITOR IN PARALLEL TO THE ELECTRIC MOTOR LIVE 1 AND 2 (pic. 14).


## TORQUE CONTROL ADJUSTMENT

NYOTA 115 incorporates an adjustable torque control system in an oil bath, which can be adjusted to the gate weight. A 13 mm spanner can be used for adjusting operations (pic.15):

1) Press and hold the retaining pin
2) By means of a $\mathbf{1 3} \mathbf{~ m m}$ spanner unscrew the locknut (the pin will lock the main shaft)
3) Keep on holding the retaining pin pressed and tighten the adjustment screw (+ power) or unscrew it (- power)
4) Tighten the nut to lock the adjustment screw in the set position as required
5) Release the retaining pin.


PIC. 15

TECHNICAL SPECIFICATIONS NYOTA 115


| ELPRO 10 PLUS CEI CONTROL PANEL |  |  |  |
| :---: | :---: | :---: | :---: |
| Power supply | 230 / 400 V | Power transformer | 20 VA |
| Voltage output | $230 \mathrm{~V}-25 \mathrm{~W}$ | Magnetic core | 1.5 W / 0.5 thick. |
| Low voltage output | $24 \mathrm{~V}-10 \mathrm{~W}$ | Voltage | 0-230 V |
| E.M. max. power output | 1.100 W | Output | 0-12-18-24 V |
| Line fuses | 5 A | Frequency | $50-60 \mathrm{~Hz}$ |
| Secondary fuses | 1A-630 mA | Insulation | $4 \mathrm{Kvx} 1^{\prime}$ |
| Logic switching | Open-Stop-Close | Main switch | T215K mark SAA |
| Box dimensions | $280 \times 200 \times 110$ | Contact rating | 15A 250 VAC |
| Protection standard | IP 437 |  |  |
| Elesta relay marking | VDE-CSA-DEMCO-SEV |  |  |
|  | $\begin{aligned} & 10 \mathrm{~A} 230 \mathrm{~V} \\ & 4 \mathrm{~A} 400 \mathrm{~V} \end{aligned}$ |  |  |
|  |  |  |  |

## FITTING ACCESSORIES FOR INSTALLING NYOTA 115




IMPORTANT: BEFORE FIXING THE SCREW, MAKE SURE THAT THE ELECTRIC WIRES ARE FITTED THROUGH THE HOLE IN THE MAGNETIC LIMIT SWITCH COVER


The magnetic limit switch is fitted to the Nyota 115, and the permanent magnets are fitted to the gear rack moving along with the gate to the respective limit position on Opening and Closing cycles.


## NYOTA 115 OVERALL DIMENSIONS



PIC. 19

## CHECKING AND MAINTENANCE:

To achieve an optimum performance and longer life of the equipment and in observance of the safety regulations, it is recommended that inspections and proper maintenance are made by qualified technicians to the whole installation ie. both the mechanical and electronic parts, as well as wiring.

- Mechanical parts: maintenance every 6 months approx.
- Electronic apparatus and safety equipment: maintenance every month approx.


## IMPORTANT WARNING NOTES

- Before installing the equipment carry out a Risk Analysis and fit any required device in compliance with EN 12445 and EN 12453 Safety Norms.
- It is recommended to keep to the instructions in this booklet - make sure that the motor specifications as printed on the motor sticker conform to those of the mains.
- Dispose properly of the packaging materials such as cardboard, nylon and polystyrene through specialized companies.
- Should the operator be removed, do not cut the electrical cables, but properly remove them by loosening the pins in the terminal board.
- Switch off the mains switch before the cover of the motor terminal board is removed.
- All the equipment must be properly earthed by the yellow/green cable marked with the specific symbol.
- It is recommended to carefully read the regulations, advice and remarks in the book "Safety Norms".


PADINI
the gate opener
Made in Italy

The growth of MECCANICA FADINI has always been based on the development of guaranteed products thanks to our "TOTAL QUALITY CONTROL" system which ensures constant quality standards, updated knowledge of the European Standards and compliance with their requirements, in view of an ever increasing process of improvement.

The "CE" mark certifies that the operator conforms to the essential requirements of the European Directive art. 10 EEC 73/23, in relation to the manufacturer's declaration for the supplied items, in compliance with the body of the regulations ISO 9000-UNI EN 29000. Automation in conformity to EN 12453, EN 12445 safety standard.

EUROPEAN MARK CERTIFYING CONFORMITY TO THE ESSENTIAL REOUIREMENTS OF THE STANDARDS 98/37/EC

- DECLARATION OF CONFORMITY
- SAFETY NORMS
- EN 12453, EN 12445 STANDARDS
- CEI EN 60204-1 STANDARDS
- WARRANTY CERTIFICATE ON THE CUSTOMER'S REQUEST


