

# ALì SW

EN

INSTRUCTION MANUAL

## ELECTRICAL FEEDER

Electrical feeding 24V $\overline{\text{---}}$  (stabilized)



## USER INSTRUCTIONS

**CAUTION.** Carefully observe all the following installation instructions to ensure personal safety.

The device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lacking experience and knowledge. Do not allow children to play with the fixed controls and keep any remote-control units out of their reach.

Have installation checks performed periodically by qualified personnel from a service centre authorised by the manufacturer. Do not use if repair or adjustment is required.

**CAUTION:** if the power cable is damaged, it must be replaced by qualified personnel from a service centre authorised by the manufacturer.

**CAUTION.** Disconnect the power supply during cleaning or maintenance operations. Do not use solvents or jets of water to wash the appliance; the appliance should not be submerged in water.

In the event of fault or malfunction, switch off the device at the main switch. All repairs and adjustments (e.g. setting the stroke) must only be performed by qualified personnel from a service centre authorised by the manufacturer.

Always request exclusive use of original spare parts. Failure to respect this condition could compromise safety and invalidate the benefits contained in the warranty for the appliance. In the event of any problems or queries, consult your agent or contact the manufacturer directly.

The A-weighted sound pressure level is less than 70dB(A).

Carefully preserve these instructions after installation.

# INSTALLER INSTRUCTIONS

nekos products have been manufactured in accordance with safety standards and conforms to the stipulations of current standards in force. When correctly assembled, installed and used according to the present instructions, they will not generate any danger for persons, animals or items.

## Symbols used in the manual



**DANGER**

*This indication draw the attention about potential dangers for safety and health of peoples and animals.*

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## 1. SAFETY INDICATIONS

### 1.1. General notes



**ATTENTION: Please read the following safety indications carefully before attempting installation of this appliance. These indications will help you to avoid contact with electrical current, injury and other accidents. Please keep this manual for future consultation.**



**The manufacturer can not be held responsible for any damages to people, animals or things, due to inobservance of basic security rules described in this manual.**



**Any use of the actuator for applications other than those indicated must previously be authorized by the manufacturer upon technical verification of the application**

### 1.2. Notes for installer and user

The **ALi SW** electrical feeder has been designed exclusively for feeding electrical motors functioning in low tension 24V<sub>---</sub>.



The device must only be installed by competent and qualified technical staff.



After removing all packaging, please verify that all parts of the appliance are present.



Any plastic bags, polystyrene, or small metallic parts such as nails, clips, etc. must be stored out of the reach of children as they constitute potential sources of danger.



The appliance is not intended for use by people (including children) whose physical, sensory and mental abilities are reduced, or in case of lack of experience or knowledge; such persons must be supervised to ensure that they do not play with the appliance.



Before connecting the appliance to the electricity supply, check that the electricity supply in use has the same characteristics as those indicated on the technical data label on the device.



This appliance is destined exclusively for the use for which it has been designed and the manufacture cannot be held responsible for any damages incurred by improper use.



Installation of the device must be carried out in accordance with the instructions set out by the manufacturer. Failure to follow these instructions could compromise safety.



Electricity supply installation must be carried out in accordance with regulations in force.



To avoid danger of lesions or death due to electrical current, we suggest to disconnect tension from the feeding line before doing any cable or regulation operation.



To assure a good separation from the line, install a sectioning device with differential protection of 30mA at the start of the electrical line.



Never clean the device with solvents or jets of water.



Before doing any cleaning or maintenance operation be sure of having disconnected the device from the line. For more certainty we suggest to disconnect electrical connections.



Eventual repairs must only be carried out by qualified staff at a service centre authorized by the manufacturer.



Always require exclusive use of original spare parts. Failure to comply with this stipulation could compromise safety and forfeit warranty benefits for the device.



In the event of trouble or doubts, please refer to your trust retailer or directly to the producer.

## 2. ACCESSORIES

The ALi SW power supply unit comes assembled in a box and ready for connection. The appliance consists of:

- Electrical power supply enclosed in plastic container.
- 200 mm connection cable. Also available in 800 mm length on request.
- Touch-switch button on commercial cover with arrows indicating direction. *(Product is on VIMAR module IDEA series, but other types of models can be supplied on request).*
- 3 module support for insertion on boxing or externally *(supplied only on request).*
- External cover plate *(supplied only on request).*
- Instructions manual.

## 3. ELECTRICITY SUPPLY

The ALi SW power supply is for connection to grids with alternate current from **100V~ to 240V~, 50-60Hz.**

This product has been designated as a Class II safety product.

## 4. ASSEMBLY AND ELECTRICAL CONNECTION

***These indications are intended for the attention of technicians and specialized personnel. Basic job and safety techniques are therefore not included.***

### 4.1. Requirements and checks

All operations for preparation, assembly and electrical connection must be performed by competent and specialised technical personnel to guarantee optimal performance and good function of the appliance.

First check that the following basic conditions have been met:

- Remove the unit from its packaging and visually check for any damage that may have occurred during transport.
- Unit performance must be sufficient to guarantee the energy required for correct function of the motor in question, do not exceed the limits indicated in the technical data table for the product *(page 7)*.
- **Attention:** Make sure that output tension corresponds to that required for function of the motor in question to avoid compromising good function.
- Check that electrical wiring is appropriate and has the correct section dimensions to comply with safety standards in force.
- Check that the casing for the unit has been correctly fitted, is easily accessible and does not impede the control action for the motor connected.

### 4.2. Electrical connection to grid

- Remove the support plate and place to one side. Check the two fixing screws are present. If not, use appropriately sized screws.
- Remove the unit from the packaging box in preparation for connection. **Do not open** the plastic container, connection can be performed externally.
- Connect the two electrical grid wires to the terminals in the plastic box area marked “**100-240VAC**”. Do not connect the earth wire, the unit has double Class II safety insulation.
- Connect the two wires supplying power to the motor to the other terminal board marked with “**24VDC**”.
- **Attention: terminals which have not been connected properly could damage the appliance and compromise safety.**
- Check wires have been inserted completely into the terminal and ensure screws have been appropriately tightened.
- Remove any dust or residual waste created during connection from the wall box (or other container) and check that the electrical wires can be placed in position free of obstacles, crushing or damage.
- Insert the unit into the wall box.
- Check that the connectors for the cables between the unit and the touch-switch have been inserted correctly. If cabling has been disconnected, take care when inserting as the connection is polarised and there is only one option for insertion of the connector.
- Assemble the support with the two screws already inserted.
- Re-assemble the plate by snapping into place.
- Press the button to perform test controls with forward/reverse movement and check for correct movement of the motor. If the motor turns in the wrong direction, invert the position of the wires on the terminal board marked with “**24VDC**”.

## 5. TECHNICAL DATA

MODEL	ALi SW
Power supply voltage ( $U_N$ )	100 - 240V 50/60Hz
Current absorbed on empty ( $I_{SBY}$ )	0,021A (@230V~)
Current absorbed when loaded ( $I_N$ )	0,170A (@230V~)
Nominal output voltage ( $U_O$ )	24V---
Maximum output current ( $I_O$ )	0,6A (@24V)
Electrical insulation	Class II
Type of function	S <sub>1</sub> – CONTINUOUS
Working temperature	from - 5 to +65 °C
Degree of protection for electrical devices	IP20
Connection at input	Screw terminals 2x2.5 mm <sup>2</sup>
Connection at output	Screw terminals 2x1 mm <sup>2</sup>
Dimensions	87.5x55.5x27.5
Weight ( <i>unit only</i> )	0.085 Kg

Any information reported in this table is not binding and may be susceptible to variations without notice.

## 6. LABEL DATA AND MARKINGS

The ALi SW feeders have CE marking and comply with the Standards listed in the Declaration of Conformity. They also come with a Declaration of Incorporation, due to their classification by the Machinery Directive as “partly completed machines”. Both declarations are included in the final pages of this manual. The plate data is displayed on an adhesive label placed on the outside of the casing, which must remain intact and visible. The main information it displays includes: manufacturer's address, product name - model number, technical characteristics, production date and serial number.

In the event of a complaint, please indicate the serial number (SN) displayed on the label.

An explanation of the symbols used on the label to abbreviate the technical characteristics is given in the table in the chapter on “TECHNICAL DATA”.

## 7. FUNCTION OF TOUCH-SWITCH CONTROL

The ALi SW unit has been provided with a control button / switch with touch-switch function. To control the motor connected, touch or lightly brush (without exerting any particular pressure) the area marked with the arrows on the cover: upwards to open and downwards to close.

The touch-switch has two functions, and can be used as a button or as a switch in the following two ways:

### 1. BUTTON mode.

Button function is activated by touching one of the two arrows. Control is instant and terminates when there is no further contact with the button. Stoppage is also immediate.

*NOTE: when controlling certain motors (for example the MR28 reduction motor) if the motor does not start immediately this is because the motor itself has been programmed for delayed start.*

### 2. SWITCH mode.

Switch function activates when one of the two arrows is clicked twice. Double click has an interval of 0,1-0,3 seconds between the two clicks, like that used on the mouse on a computer.

Again, control is instant and the motor will only stop when:

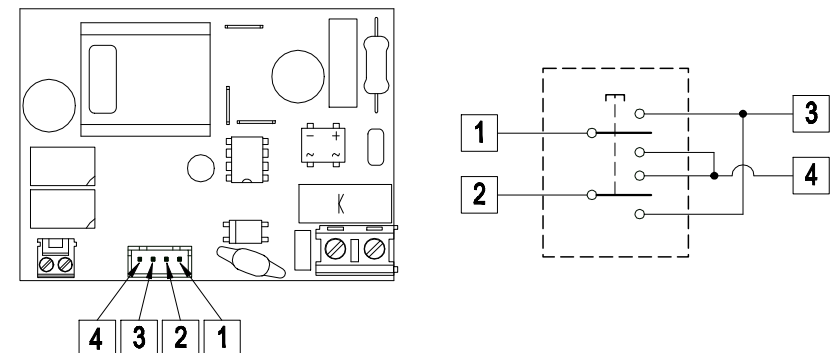
- The motor reaches an endpoint;
- Either one of the two buttons is touched;
- 2 minutes after start function, as programmed by the manufacturer.

## 8. MOTOR CONTROL WITH TRADITIONAL BUTTON

The ALi SW usually runs with a touch-switch, but can also be controlled using a conventional button / switch by making a slight and simple adjustment to the cabling. Using the cabling provided (for connection between the unit and the touch-switch):

1. Cut the cable as close as possible to either one of the two connectors.
2. Separate out the four wires around 2 cm.
3. Strip the wires for connection to the button or switch.
4. Perform the electrical connection in accordance with the diagram below.

(The following diagram is an illustration of connection for the VIMAR button series Idea, code 16145).



Test function to check connections are correct and that the motor turns in the required direction. If this is not the case, invert the positions of wires 1 and 2.

## 9. TROUBLESHOOTING

Please consult the following table for any eventual problems with function during installation or normal use:

Problem	Possible cause	Solution
<ul style="list-style-type: none"><li>• Gear motor does not function when connected.</li></ul>	<ul style="list-style-type: none"><li>• No electricity at feeder.</li><li>• Cable not connected or wire has not been connected.</li><li>• Feeder does not provide required tension (24V<sub>---</sub>).</li></ul>	<ul style="list-style-type: none"><li>• Check the trip or safety switch.</li><li>• Check all electrical connections on gear motor.</li></ul>
<ul style="list-style-type: none"><li>• Gear motor does not function at required speed.</li></ul>	<ul style="list-style-type: none"><li>• Wrong feeder. Feeder cannot provide sufficient electricity.</li></ul>	<ul style="list-style-type: none"><li>• Winding on the transformer may be broken.</li><li>• Use more powerful feeder.</li></ul>
<ul style="list-style-type: none"><li>• Touch-switch does not control movement.</li></ul>	<ul style="list-style-type: none"><li>• One or both of the connectors has not been inserted correctly</li><li>• Touch-switch board is not touching cover properly.</li></ul>	<ul style="list-style-type: none"><li>• Remove connector(s) and reconnect</li><li>• Adjust board and fix into position with hot glue on component side.</li></ul>

## 10. ENVIRONMENTAL PROTECTION

All materials used in the manufacture of this appliance are recyclable. We recommend that the device itself, and any accessories, packaging, etc. be sent to a centre for ecological recycling as established from laws in force on recycling. The device is mainly made from the following materials: aluminium, zinc, iron, plastic of various type, cuprum. Dispose materials in conformity with local regulations about removal.

## 11. CERTIFICATE OF GUARANTEE

The manufacturer will guarantee good function of the appliance. The manufacturer shall undertake to replace defective parts due to poor quality materials or manufacturing defects in accordance with article 1490 of the Civil Code.

The guarantee covers products and individual parts for **2 years** from the date of purchase. The latter is valid as long as the purchaser possesses proof of purchase and completion of all agreed conditions of payment.

Guarantee of good function of appliances agreed by the manufacturer implies that the latter undertakes to repair or replace free of charge and in the shortest period possible any parts that break while under warranty.

The purchaser is not entitled to any reimbursement for eventual direct or indirect damage or other expenses incurred. Attempt to repair by personnel unauthorised by the manufacture shall render the warranty null and invalid.

The warranty does not cover fragile parts or parts subject to natural wear and tear or corrosion, overload, however temporary etc. The manufacturer will accept no responsibility for eventual damage incurred by erroneous assembly, manoeuvre or insertion, excessive stress or inexpert use.

Repairs performed under guarantee are always "*ex factory of the manufacturer*".

Respective transport expenses (out/back) are the responsibility of the purchaser.

## 12. DECLARATION OF CONFORMITY

The undersigned,

Company name: **NEKOS S.r.l**

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declare that the document is issued under our sole responsibility and belongs to the following product:

Apparatus model / Product: **Electrical feeder ALi SW**

Trademark: **NEKOS**

Model/Type: **ALi SW**

Batch: *see data label*

Serial number: *see data label*

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- **2014/53/EU Radio Equipment (RED)**
- **2011/65/EU Restriction of the use of certain hazardous substances Directive (RoHS Directive)**
- **2015/863/EU Delegated Directive amending Annex II of Directive 2011/65/EU of the European Parliament and of the Council regarding the list of substances with usage restrictions**

The following harmonised standards and/or technical specifications have been applied:

**EMC: EN 61000-6-3:2007 + A1:2011 + AC:2012**

**EN IEC 61000-6-2:2019**

**LVD: EN 60335-1:2012 + AC:2014+A11:2014**

**RED: ETSI EN 300 220-1 V3.1.1 - ETSI EN 300 220-2 V3.2.1**

**ETSI EN 301 489-1 V2.2.3 - ETSI EN 301 489-3 V2.1.1**

**RoHS: EN 50581:2012**

Colceresa, 04/03/2020

Giuliano Galliazzo (A.D. – President)



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