PTP45
Automation for blinds and awnings
Instructions
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1. SAFETY INSTRUCTIONS

**WARNING**

Important safety instructions for people, this product must only be used for its intended purpose. Any other use is dangerous. Follow all instructions as improper installation may result in serious bodily injury. Keep these warnings together with the installation and operation manuals that come with the gearmotor.

**Important safety instructions for people, READ CAREFULLY when you see this symbol:**

- Always cut off the power supply before performing any type of intervention.
- Always make sure the gearmotor is properly connected to the earth.

Use and installation of the product must comply with Machinery Directive 2006/42/CE. Installation must be carried out by expert qualified personnel who knows the potential hazards associated and in full compliance with current regulations. Use of the product must be restricted to its intended use. Any other use is to be considered dangerous and therefore forbidden.

Do not allow children to play with the fixed command devices, or in the gate’s area of operation. Keep any remote control devices (i.e. transmitters) away from children, to prevent the gearmotor from being accidentally activated.

Keep the gate and the gate opener regularly maintained. Use only Proteco’s original spares. Users are strictly forbidden to carry out any changes on the gate operator. Proteco Cancelli Automatici Srl is not liable for any damage resulting from improper, wrongful or unreasonable use.

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**CE COMPLIANCE DECLARATION**

Manufacturer: PROTECO S.r.l.
Address: Via Neive, 77 – 12050 Castagnito (CN) – ITALIA
declares that

The product type: PTP45 tubular motor for rolling shutters and awnings
Modelli: PTP45 20, PTP45 30, PTP45 50, PTP45 50M

It complies with the essential requirements of EEC Directives:
- 2006/95/EC Low Voltage Directive

The product also complies, with the constraints of the applicable parts, with the following standards:
- EN 55014-1
- EN 55014-2
- EN 60335-1: 2002+A11+A12+A2+A13
- EN 60335-2-97:2006+A11
- EN 61000-3-2
- EN 61000-3-3

The manufacturer declares that the start-up of the machinery is not permitted unless the machine has been identified and declared as conformed to 2006/42/EC Machinery Directive.

Castagnito, October 1st 2015

Marco Gallo
Amministratore Delegato
2. DESCRIPTION AND INTENDED USE

The PTP45 range is designed to automate blinds and awnings.

2.1 TECHNICAL FEATURES

<table>
<thead>
<tr>
<th></th>
<th>PTP4520</th>
<th>PTP4530</th>
<th>PTP4550</th>
<th>PTP4550M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrust (Nm)</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Motor Speed (rpm)</td>
<td>17</td>
<td>17</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Motor Power (W)</td>
<td>55</td>
<td>226</td>
<td>244</td>
<td>244</td>
</tr>
<tr>
<td>Current (A)</td>
<td>0,68</td>
<td>0,95</td>
<td>1,06</td>
<td>1,06</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>2,30</td>
<td>2,35</td>
<td>2,40</td>
<td>3,30</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>440</td>
<td>480</td>
<td>480</td>
<td>620</td>
</tr>
</tbody>
</table>

2.2 SELECTION GUIDE

Surface calculation: height x width = m²
select the model according to the table below

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>MAX m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC and light Aluminium</td>
<td>6Kg/m²</td>
</tr>
<tr>
<td>Extruded Aluminium and Steel</td>
<td>9,5Kg/m²</td>
</tr>
<tr>
<td>Wood and armored Steel</td>
<td>12,5Kg/m²</td>
</tr>
</tbody>
</table>

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<thead>
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<th>MATERIAL</th>
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<td>12,5Kg/m²</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Nm</th>
<th>Max Lifting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTP45 20</td>
<td>20</td>
<td>32 Kg</td>
</tr>
<tr>
<td>PTP45 30</td>
<td>30</td>
<td>52 Kg</td>
</tr>
<tr>
<td>PTP45 50</td>
<td>50</td>
<td>90 Kg</td>
</tr>
</tbody>
</table>

Ø70 mm tubolar motors
Intersect the value of the extension with the number of arms of the awning

N° ARMS

<table>
<thead>
<tr>
<th>EXTENSION OF ARMS</th>
<th>2</th>
<th>4</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>PTP45 50</td>
<td>PTP45 50</td>
<td>PTP45 50</td>
</tr>
<tr>
<td>2,5</td>
<td>PTP45 30</td>
<td>PTP45 50</td>
<td>PTP45 50</td>
</tr>
<tr>
<td>1,5</td>
<td>PTP45 30</td>
<td>PTP45 50</td>
<td>PTP45 50</td>
</tr>
</tbody>
</table>
2.3 KIT CONTENT

PTP 45 (without emergency release)

01 n°1 Tubular motor
02 n°1 Limit switch adjuster wrench
03 n°1 Split pin
04 n°1 Wall fixing support

PTP 45 M (with emergency release)

01 n°1 Tubular motor
02 n°1 Limit switch adjuster wrench
03 n°1 Wall fixing support
04 n°1 Split pin
05 n°1 Release key

2.4 DIMENSIONS

PTP45 20 – PTP45 30 – PTP45 50

480 (30-50 Nm) - 440 (20 Nm)

PTP45 50M
3. INSTALLATION

Before installing make sure the power supply is OFF. If you need to replace an existing system, remove all devices for manual operation.

⚠️ Make sure the command keys are positioned where the system can be visible during operation and at least at an height of 1,5 m from ground.

3.1 PRELIMINARY CHECKS

If you need to replace an existing system, keep the same axis

1- Low down the roller blind and disconnect it from the tubular
2- Remove the axis

RECOMMENDED TOOLS:
3.2 MOTOR/TUBULAR ASSEMBLY

Measure the distance between the two supports. Fit the 60 mm adapter in for the whole length till covering the locking ring of the limit switch.

The length of the adapter must be such to get the total length (L) as shown in the below picture, keeping a clearance of 2-3 mm. In order to check the correct position and to simulate the final installation, lay temporarily the support to the wall as shown in the picture.

Simulate the preassembled automation, respecting the alignment between the two fixing supports and check that the adapter is on level. Mark the holes of the fixing support in a way to get easy access to both fixing screws.
Proceed to fix the support to wall.
Complete the assembling locking the system with the provided split pin.
3.3 WIRING

Wire the system according to the below diagram:
To be up to safety standards we recommend to fit a power cut device, keeping a minimum distance of 3 mm between the contacts. Every motor has to have its own device.

**WIRING KEY:**
1. BLACK
2. BROWN
3. BLUE (Common)
4. YELLOW/GREEN

If you wish to install the motor at your right, just switch the black wire with the brown.
It’s always wise to double check the wiring: if the rotation should not proper, just switch the position between the black and the brown wires.

3.4 LIMIT SWITCH SETTING

3.4.1 LIMIT SWITCH IN CLOSING

Before fitting the store/awning to the octagonal adapter, let the motor run down till reaching the expected end stop position. Then fit the store.
3.4.2 LIMIT SWITCH IN OPENING

Give an opening command. Check the store operation and make the according adjustments if necessary.
To set the limit switch, plug the provided key into the according fixing points. If you wish to increase the run of the store/awning, turn to “+”, while if you wish to decrease it turn to “-”.
The below diagrams show how to adjust the available systems, opening setting (possible adjustments for motor RH and LF positioned):

After fixing the opening and closing positions, test the store/awning operation to check the correct run.
Any further adjustments shall be carried out by the provided hexagonal key.

3.5 AWNINGS

Ø 70 adapters are available for awnings. Item code MTPR01.
So far the assembly attend the awning manufacturer’s instructions.
So far the wiring and limit switch adjustment attend the store installation manual.

4. WARRANTY

PROTECO Srl is liable for any manufacture fault on tubular motors, electrical components and accessories during 3 years from manufacture date.
PROTECO Srl responds for repairing within the warranty terms, after inspection by its technical staff. The returned faulty system will remain a Proteco’s property.
Use of the product must be restricted to its intended use. Any other use shall be considered out of the warranty.
Installation and maintenance are charged at the person who carries out the installation.
Use only Proteco’s original spares. Users are strictly forbidden to carry out any changes on the system.
PROTECO Srl is not liable for any damage resulting from improper, wrongful or unreasonable use.
The return costs are at customer’s charge.

PROTECO Srl Via Neive 77, 12050 Castagnito (CN) Italia

The warranty doesn’t respond when:
The chosen system doesn’t comply with the features of the store or awning
Prescriptions contained into the installation manual are disrespected
The item has been used/stored in unproper conditions
The item has been repaired, modified, altered
The item has been wrongly used or neglected
The manufacture label is damaged or is missing
The bad operation is due to oxidation, overvoltage, insects, animals
5. MAINTENANCE

Functional checks must be performed once every 6 months, including: checking the state of lubrication and tightness of the anchoring screws on the operator as well as the good operation of all safety devices.

6. DISPOSAL

⚠️ DO NOT DISPOSE OF IN NATURE!

Some components may contain hazardous waste. They must, thus, be removed and turned into licensed firms for their disposal. Before acting always check the local laws on the matter.