Everything under control

inel.gda.pl
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About us

Comfort, safety, modernity. These were the three goals we had in mind when establishing our company and starting the development of innovative products to increase the comfort and safety in the homes of our clients.

INEL Sp. z o.o. was established in 1986 and is one of the leading Polish manufacturers of control devices for roller blinds, shutters, doors and rolling grilles.

We offer a wide range of control devices for roller blinds: simple and advanced, implementing a variety of sensors, as well as the Internet access.

We design and manufacture all of our roller blind and door control systems ourselves. We only use components made by globally leading manufacturers.

We care about our clients and thus we provide comprehensive technical assistance during the installation and operation of our devices. We guarantee quick resolution of all complaints, without unnecessary paperwork.

To meet your requirements we organise technical training courses in our seat in Gdańsk. For detailed information please contact us.

5 years of warranty for all INEL products
Remote controls

The wide range of remote controls offered by INEL is characterised by modern and pleasing design. The use of sequential codes ensures the highest level of security.

Remote controls of the XB series

**Keyring type**

**PIL-02XB**

**Product features:**
- supports 2 independent receivers
- sliding cover prevents accidental button presses
- battery powered
- included: remote control with keyring and CR-2032 battery

**Technical overview:**
- dimensions: 55×30×14 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

**PIL-04XB**

**Product features:**
- supports 4 independent receivers
- sliding cover prevents accidental button presses
- battery powered
- included: remote control with keyring and CR-2032 battery

**Technical overview:**
- dimensions: 65×36×15 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

* Do not apply to obstacle and overload detection motors.

Used to remotely control door and gate control units as well as drives* with built-in RF receivers and INEL wireless controllers.

*INEL is a registered trademark of INEL S.A. Piony 18a, 57-002 Piaseczno, Poland. INEL - More comfort, safety and security for your property. INEL - Made in Poland.
Wall-mounted

Remote controls of the NS series

Used to remotely control any type of radio-controlled drives as well as INEL wireless controllers*.

* Does not apply to wireless door and rolling grilles control units.

PIL-01NS

Product features:
- supports 1 independent receiver and/or 1 receiver group
- touch panel control
- LED indicating command transmissions
- shutter mode (setting slat angle)
- battery powered
- 3 panel colour options available: white, silver or anthracite
- included: remote control and CR-2032 battery

Technical overview:
- dimensions: 130×45×12 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

PIL-04NS

Product features:
- supports 4 independent receivers and/or receiver groups
- touch panel control
- LED and beeps indicating command transmissions
- shutter mode (setting slat angle)
- battery powered
- 3 panel colour options available: white, silver or anthracite
- included: remote control and CR-2032 battery

Technical overview:
- dimensions: 80×80×12 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

Handheld

Remote controls of the PM and DL series

Used to remotely control any type of radio-controlled drives as well as INEL wireless controllers* - individually or in groups.

The PMT and DLT remote controls can be programmed for automatic, timed control.

* Does not apply to wireless door and rolling grilles control units.

PIL-01PM

Product features:
- supports 1 independent receiver and/or 1 receiver group
- displays the direction of drive operation
- battery powered
- included: remote control with wall hanger and CR-2032 battery

Technical overview:
- dimensions: 130×45×12 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

PIL-04NS

Product features:
- supports 4 independent receivers and/or receiver groups
- touch panel control
- LED and beeps indicating command transmissions
- shutter mode (setting slat angle)
- battery powered
- 3 panel colour options available: white, silver or anthracite
- included: remote control and CR-2032 battery

Technical overview:
- dimensions: 80×80×12 mm
- supply: 3V (CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz
**PIL-05/09/19PM**

**Product features:**
- Supports 5, 9 or 19 independent receivers and/or receiver groups.
- LCD display indicating drive operation direction, channel number, low battery.
- Shutter mode (setting slat angle).
- Channel “0” is used to control all drives which have been registered with the given remote control.
- Battery powered.
- Included: remote control with wall hanger and CR-2032 battery.

**Technical overview:**
- Dimensions: 130x45x12 mm.
- Supply: 3V (CR-2032 battery).
- Operating temperature from -10°C to +55°C.
- Operating frequency: 433.92 MHz.

**PIL-19/99PMT**

**Product features:**
- Supports 19 or 99 independent receivers and/or receiver groups, respectively.
- Built-in clock and calendar with astro function, allowing to automatically run timed programmes.
- Create up to 32 timed programme scenarios.
- Clear backlit graphic display indicating drive operation direction, channel number, day of the week and time.
- It is possible to create names for individual channels dedicated to rooms within the area (up to 16 alphanumeric characters).
- Shutter mode (setting slat angle).
- Blind/shutter unsealing feature.
- Menu in 4 language versions: Polish, English, German and French.
- Channel “00” is used to control all drives which have been registered with the given remote control.
- Battery powered.
- Included: remote control with wall hanger and 2×CR-2032 batteries.

**Technical overview:**
- Dimensions: 130x45x12 mm.
- Supply: 3V (2×CR-2032 battery).
- Operating temperature from -10°C to +55°C.
- Operating frequency: 433.92 MHz.
**PIL-64PMS**

**Product features:**
- dedicated for the SSN-04 wired system
- supports up to 64 independent controllers and/or groups
- clear backlight graphic display indicating: drive operation direction, channel number or group number
- it is possible to create names for individual channels dedicated to rooms within the area (up to 16 alphanumeric characters)
- battery powered
- included: remote control with wall hanger and 2×CR-2032 batteries

**Technical overview:**
- dimensions: 130×45×12 mm
- supply: 3V (2×CR-2032 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz

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**PIL-01DL**

**Product features:**
- supports 1 independent receiver and/or receiver group
- LED indicating command transmissions
- battery powered
- magnetic wall hanger, modern design, ease of use
- 3 colour versions available: white, black, black-and-white
- included: remote control with magnetic wall hanger and CR-2430 battery

**Technical overview:**
- dimensions: 130×45×12 mm
- supply: 3V (CR-2430 battery)
- operating temperature from -10°C to +55°C
- operating frequency: 433.92 MHz
PIL-05DL

Product features:
• supports 5 independent receivers and/or receiver groups
• LEDs indicating channel number
• shutter mode (setting slat angle)
• by selecting all channels (all LEDs light up) you can control all 5 receivers at the same time
• battery powered
• magnetic wall hanger, modern design, ease of use
• 3 colour versions available: white, black, black-and-white
• included: remote control with magnetic wall hanger and CR-2430 battery

Technical overview:
• dimensions: 130×45×12 mm
• supply: 3V (CR-2430 battery)
• operating temperature from -10°C to +55°C
• operating frequency: 433.92 MHz

PIL-09/19DL

Product features:
• supports 9 or 19 independent receivers and/or receiver groups, respectively
• LCD display indicating: drive operation direction, channel number, low battery
• shutter mode (setting slat angle)
• channel “0” is used to control all drives which have been registered with the given remote control
• battery powered
• magnetic wall hanger, modern design, ease of use
• 3 colour versions available: white, black, black-and-white
• included: remote control with magnetic wall hanger and CR-2430 battery

Technical overview:
• dimensions: 130×45×12 mm
• supply: 3V (CR-2430 battery)
• operating temperature from -10°C to +55°C
• operating frequency: 433.92 MHz
PIL-19/99DLT

Product features:
• supports 19 or 99 independent receivers and/or receiver groups, respectively
• built-in clock and calendar with astro function, allowing to automatically run timed programmes
• create up to 32 timed programme scenarios
• clear backlit graphic display indicating: drive operation direction, channel number, day of the week and time
• if it is possible to create names for individual channels dedicated to rooms within the area (up to 16 alphanumeric characters)
• shutter mode (setting slat angle)
• blind/shutter unsealing feature
• menu in 4 language versions: Polish, English, German and French
• channel “00” is used to control all drives which have been registered with the given remote control
• battery powered
• magnetic wall hanger, modern design, ease of use
• 3 colour versions available: white, black, black-and-white
• included: remote control with magnetic wall hanger and CR-2430 battery

Technical overview:
• dimensions: 130×45×12 mm
• supply: 3V (CR-2430 battery)
• operating temperature from -10°C to +55°C
• operating frequency: 433.92 MHz

Flush-mounted

The flush-mounted PIL-01PT remote is capable of remotely controlling any type of radio-controlled drives as well as INEL wireless controllers.

PIL-01PT

Product features:
• works with an alarm control unit and external sensors
• shutter switch of the same line as other electric equipment within the premises can be used
• powered by batteries or (optionally) externally (12V DC)
• included: remote control and CR-2032 battery

Technical overview:
• dimensions: 51×51×16 mm
• supply: 3V battery (CR-2032) or 12V DC power supply
• operating temperature from -10°C to +55°C
• operating frequency: 433.92 MHz
You can manage the shutters at home from anywhere in the world with a smartphone, tablet or computer.

**Internet control unit**

**INEL-NET-01**

**Product features:**
- Used to remotely control any type of radio-controlled drives as well as INEL wireless controllers
- Devices can be accessed from anywhere in the world through any web browser
- The control unit can support up to 99 independent channels
- No need to install additional applications
- Available in 3 language versions: Polish, English, German
- Includes: main unit with power adapter and Ethernet cable

**Technical overview:**
- Dimensions: 140x111x36 mm
- Supply voltage: 5 V DC
- Operating temperature: from -10°C to +55°C
- Frequency: 433.92 MHz

**Made in Poland**

Everything under control
Control units are the key element of door automatics. In order to increase safety you can connect a variety of devices, such as: photocells, pressure, optical and resistance safety edges.

**Door and rolling grilles control units**

**CRS-435XG**
- Product features:
  - supports 1 drive
  - remote radio control (PIL-02XN/04XN remote) and manual wired control (with a sequential switch)
  - memory for registering up to 15 remote controls
  - possibility of connecting a variety of safety devices: photocells, optical and resistance safety edges.
  - includes: main unit with two PIL-02XN remotes

**Technical overview:**
- dimensions: 155x119x75.5 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- operating frequency: 433.92 MHz

**CRS-435XG3**
- Product features:
  - supports 1 drive
  - remote radio control (PIL-02XN/04XN remote) – manual control with deadman function (with built-in buttons) and manual wired control (with a sequential switch)
  - ability to connect device: photocells
  - the unit has 2 operating modes:
    1. **Standard** – operated with built-in buttons, remote controls or sequential switch
    2. **“Deadman”** – can be closed only by permanent holding built-in button (in this mode, remote and the sequential switch remain inactive)
  - includes: main unit

**Technical overview:**
- dimensions: 150x200x81 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- operating frequency: 433.92 MHz

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**Everything under control**

Made in Poland
**Dual-channel control unit**

**CRS-436XG**

**Product features:**
- supports 2 drives
- manual control (with sequential switches) and remote control (PIL-02XB/04XB remotes)
- memory for registering up to 15 remote controls
- ability to connect doors and gates with photocells

**Technical overview:**
- dimensions: 155x119x75.5 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- operating frequency: 433.92 MHz

**Product features:**
- supports 2 drives
- manual control (with sequential switches) and remote control (PIL-02XB/04XB remotes)
- memory for registering up to 15 remote controls
- ability to connect doors and gates with photocells

**Technical overview:**
- dimensions: 155x119x75.5 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- operating frequency: 433.92 MHz

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**Wireless receivers**

**ORS-X2T/ORS-X4T**

**Product features:**
- supports control units of various manufacturers; can be controlled with remotes (PIL-02XB or PIL-04XB)
- up to 255 remotes can be registered
- includes: radio receiver with 2 remotes: PIL-02XB or PIL-04XB

**Technical overview:**
- dimensions: 95x75x41 mm
- supply voltage: 12 V DC or 24 V DC/AC
- operating temperature: from -10°C to +55°C
- operating frequency: 433.92 MHz

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**Door accessories**

**FOT-01**

**Photocell for control units:**
CRS-435XG, CRS-435XG3, CRS-436XG.

**Product features:**
- protection against accidental door closing

**Technical overview:**
- dimensions: 90x46x32 mm
- supply voltage: 12 V DC or 24 V DC/AC
- operating temperature: from -10°C to +55°C
- operating range: 20 m
- manufacturer: Nologo
Tubular motors

Motors manufactured by INEL are intended for controlling the operation of roller shutters, blinds, sunblinds as well as doors and rolling grilles.

Standard and radio-controlled versions

Drive compatible with 40 mm diameter octagonal tubes.
Mechanical limit switches.
"R" denotes a radio-controlled drive.
"SH" - a short drive.

The set includes:
- crown
- adapter
- mounting bracket

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Torque (Nm)</th>
<th>Rotation Speed (rpm)</th>
<th>Tube diameter (mm)</th>
<th>Supply voltage (V)</th>
<th>Voltage frequency (Hz)</th>
<th>Operating time (min)</th>
<th>IP rating</th>
<th>Maximum number of turns</th>
<th>Weight (kg)</th>
<th>Length L1/L2 (mm)</th>
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</thead>
<tbody>
<tr>
<td>N-6</td>
<td>YYGL35S-6/28</td>
<td>GM35S-6/28</td>
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<td>28</td>
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<td>GM35SH-6/17</td>
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<td>GM35S-10/17</td>
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<td>GM35S-13/14</td>
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<td>14</td>
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<td>230</td>
<td>50</td>
<td>126</td>
<td>0.56</td>
<td>118</td>
</tr>
</tbody>
</table>

Everything under control
Drive compatible with 50/60 mm diameter octagonal tubes.
Mechanical limit switches.
“R” denotes a drive with built-in radio receiver.

The set includes:
• crown
• adapter
• mounting bracket

With overload detection

Drive with overload detection compatible with 40/60 mm diameter octagonal tubes.
Electronic limit switches. Motor installation with blocking hangers and stoppers in the lower slat.
“P” denotes overload detection motor.
“PR” denotes a wireless control overload detection motor.
PR motors can be connected to a sequential switch.

The set includes:
• crown
• adapter
• mounting bracket
With obstacle detection

Drive with obstacle detection compatible with 40/60 mm diameter octagonal tubes.
Electronic limit switches. Motor installation with soft hangers.
"E" denotes the obstacle detection function.
"RE" denotes a wireless control obstacle detection motor.
"ES" denotes a motor with wireless control and return channel.
RE motors can be connected to a sequential switch.

The set includes:
• crown
• adapter
• mounting bracket

With emergency crank handle

Drive with manual emergency crank handle compatible with 60/70 mm diameter octagonal tubes.
Mechanical limit switches.
"R" denotes a drive with built-in radio receiver.

The set includes:
• crown
• adapter
• mounting bracket

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Torque (Nm)</th>
<th>Rotation Speed (rpm)</th>
<th>Tube diameter (mm)</th>
<th>Supply voltage (V)</th>
<th>Voltage frequency (Hz)</th>
<th>Power (W)</th>
<th>Current (A)</th>
<th>Operating time (min)</th>
<th>IP rating</th>
<th>Maximum number of turns</th>
<th>Weight (kg)</th>
<th>Length L1/L2 (mm)</th>
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<td>230</td>
<td>50</td>
<td>126</td>
<td>0.56</td>
<td>IP 44</td>
<td>60</td>
<td>1.9</td>
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<td>17</td>
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<td>230</td>
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<td>126</td>
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<td>IP 44</td>
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<td>1.9</td>
<td>555/500</td>
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<td>17</td>
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<td>126</td>
<td>0.56</td>
<td>IP 44</td>
<td>60</td>
<td>1.9</td>
<td>555/500</td>
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<td>N-20E</td>
<td>YG145E-20/13</td>
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<td>156</td>
<td>0.68</td>
<td>IP 44</td>
<td>60</td>
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<td>15</td>
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<td>0.68</td>
<td>IP 44</td>
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<td>2.6</td>
<td>530/470</td>
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<td>50</td>
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<td>IP 44</td>
<td>60</td>
<td>2.6</td>
<td>530/470</td>
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<table>
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<tr>
<th>Symbol</th>
<th>Torque (Nm)</th>
<th>Rotation Speed (rpm)</th>
<th>Tube diameter (mm)</th>
<th>Supply voltage (V)</th>
<th>Voltage frequency (Hz)</th>
<th>Power (W)</th>
<th>Current (A)</th>
<th>Operating time (min)</th>
<th>IP rating</th>
<th>Maximum number of turns</th>
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<td>1.01</td>
<td>IP 44</td>
<td>21</td>
<td>4.4</td>
<td>720/650</td>
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</tbody>
</table>
Drive compatible with 70 mm diameter octagonal tubes. The GM59M and YYGL59M are fitted with manual emergency crank handle. Mechanical limit switches.

The set includes:
- crown
- adapter
- mounting bracket

Tubular motor selection table

WARNING!
The parameters given are only estimates - they depend on numerous factors (correct installation, co-efficient of friction of the blind, atmospheric conditions and other).
The standard length of power cord for all INEL tubular motors is 2m. It is possible to order a custom (longer) cord.

<table>
<thead>
<tr>
<th>Torque</th>
<th>Railer blind length</th>
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<td>1.5 m</td>
<td>2 m</td>
</tr>
<tr>
<td>N-6Nm</td>
<td>11 kg</td>
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<tr>
<td>N-10Nm</td>
<td>20 kg</td>
</tr>
<tr>
<td>N-20Nm</td>
<td>46 kg</td>
</tr>
<tr>
<td>N-40Nm</td>
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<td>N-50Nm</td>
<td>88 kg</td>
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<tr>
<td>N-100Nm</td>
<td>-</td>
</tr>
<tr>
<td>N-140Nm</td>
<td>-</td>
</tr>
</tbody>
</table>

Symbol | Torque (Nm) | Rotation Speed (rpm) | Tube diameter (mm) | Supply voltage (V) | Voltage frequency (Hz) | Power (W) | Current (A) | Operating time (min) | IP rating | Maximum number of turns | Weight (kg) | Length L1/L2 (mm) |
<table>
<thead>
<tr>
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<td>378</td>
<td>1.64</td>
<td>&gt;4</td>
<td>IP 44</td>
<td>20</td>
<td>8</td>
</tr>
</tbody>
</table>
Roller blind controllers and control systems

Controllers with radio receivers are used to control roller blinds with 230 VAC motors. Moreover, these devices can be used to control: facade blinds, internal horizontal shutters, light sources. Wireless controllers work with all our remote controls.

Central wireless control

Wireless controllers for: roller blinds, shutters and light sources

ST-01R/ST-01RS/ST-01RZ

Product features:
- controller with housing, installed in flush-mounted wall box, 60 mm diameter and double depth
- can be connected to a shutter button of any manufacturer
- the ST-01RS version allows to control light sources (on/off)
- the ST-01RZ version can control facade blinds and internal horizontal shutters (slat rotation)

Technical overview:
- dimensions: 49×49×23 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- frequency: 433.92 MHz

ST-01RL/ST-01RLZ

Product features:
- controller in sealed housing mounted to the side of the roller blind cassette
- one controller can operate only one drive
- the ST-01RLZ version can control facade blinds and internal horizontal shutters (slat rotation)

Technical overview:
- dimensions: 97×22×26 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- frequency: 433.92 MHz

ST-01RN/ST-01RNS/ST-01RNZ

Product features:
- installed in flush-mounted wall box, 60 mm diameter and double depth
- one controller can operate only one drive
- touch panel control
- the touch panel is available in three colour options (white, silver, anthracite)
- the ST-01RNS version can control light sources (on/off)
- the ST-01RNZ version can control facade blinds and internal horizontal shutters (slat rotation)

Technical overview:
- dimensions: 80×80×40 mm
- supply voltage: 230 VAC
- operating temperature: from -10°C to +55°C
- frequency: 433.92 MHz
The radio control system can be used for control of a specific number of roller blinds in any location.

One element of the system are receivers, i.e. ST-01R/ST-01RL/ST-01RN controllers and/or drives with built-in radio receivers, or stand-alone receivers (a wide range of remote controls).

The remotes can be surface- or flush-mounted, which allows you to build a system which is optimally tailored to the individual needs of your client. The PMT and DLT series remotes allow you to program the operation time of individual roller blinds within the area. They are enabled automatically at programmed times and weekdays.

By using ST-01RS/ST-01RNS controllers you can control not only the roller blinds, but also light sources or other devices powered by 230 VAC power supply (on-off function). In the ST-01RZ/ST-01RLZ/ST-01RNZ versions, the controller can control the operation of façade blinds and internal horizontal shutters powered by 230 VAC drives (slat rotation).
A wired roller blind remote control system can be configured in a variety of ways.

The setup depends on the individual requirements of the user. The system consists of: individual ST-01 controllers (one for each drive), ST-02 group controllers, CR-02 main timer unit and PIL-64 PMS remote.
The system allows you to control a large number of roller blinds with one device.

It consists of: ST-0P controller (acting as individual controller - one for every drive, and group controller - an additional one for every group), and control device, e.g. ROJAL S timer.
For octagonal tubes

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Crown Ø</th>
<th>Adapter Ø</th>
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<tbody>
<tr>
<td>HTL 05</td>
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<td>HTL 33</td>
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<tr>
<td>HTL 08</td>
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</tr>
<tr>
<td>HTL 04</td>
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For round tubes

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<tr>
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<td>HTL 30</td>
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<tr>
<td>HTH 63</td>
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<tr>
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<td>HTH 01</td>
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<tr>
<td>HTH 28</td>
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<td>60 mm</td>
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</table>
Other

Shock sensor for awnings
Product features:
• allows for automatic awning closing in windy weather
• six-degree sensitivity scale
• sensor damage will cause the awning to close automatically
Technical overview:
• dimensions: 130x40x25 mm
• supply: 3V (2×AAA battery)
• operating temperature: from -10°C to +55°C
• frequency: 433.92 MHz

Signal repeater
Product features:
• enhances remote control range
• maintenance-free device
Technical overview:
• dimensions: 130x40x25 mm
• supply voltage: 5V DC
• operating temperature: from -10°C to +55°C
• frequency: 433.92 MHz

Surface-mounted key switch
Product features:
• two operation modes: stable (after turning stays in the same position) and retractive (after turning goes back to its initial position)
Technical overview:
• dimensions: 81x81x53 mm
• supply voltage: 250 V AC
• operating temperature: from -30°C to +50°C
• manufacturer: Inprojal

Flush-mounted key switch
Product features:
• two operation modes: stable (after turning stays in the same position) and retractive (after turning goes back to its initial position)
Technical overview:
• dimensions: 81x81x70 mm
• supply voltage: 250 V AC
• operating temperature: from -30°C to +50°C
• manufacturer: Inprojal

Installation cable
Cable for programming wired motors with obstacle or overload detection.

MAN-001
Manual switch

Cardan joint

K-01 N HK motor crank (L=140 cm)
Everything under control
Everything under control

Over 30 years of experience
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