



Instructions translated EN

Installation and operating instructions for actuators type: YYGL

Models: YYGL35PRX-10/17, YYGL45PRXSH-10/15,
YYGL35PRX-13/14, YYGL45PRX-20/15, YYGL45-40/15

The drive with overload detection and automatic end position setting is an InelSmart system device. The device is equipped with a radio receiver with return channel. The information transmitted via the return channel allows full control of the device. The radio link operates at 868.30 MHz.

The drive is manufactured in three versions:

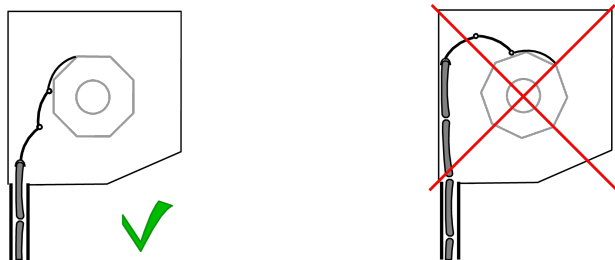
- YYGL35PRX-10/17 (N-10PRX)
- YYGL45PRXSH-10/15 (N-10PRXSH)
- YYGL35PRX-13/14 (N-13PRX)
- YYGL45PRX-20/15 (N-20PRX)
- YYGL45PRX-40/15 (N-40PRX)



To ensure the correct operation of the drive, hangers and stoppers should be used in the bottom rail. The stoppers should be placed as close as possible to the guides to improve the comfort of use. A sill must be fitted in the window and the length of the armoring should be matched to the length of the guides.

Hanger-block installation instructions

The length of the hanger and the roller blind must be selected so that the hanger presses the first lamella of the armour down the guide. Select the length of the hanger according to the recommendations of the hanger manufacturer.



1. Safety instructions

1.1 Basic guidelines

The drive with overload function is handed over in a condition for safe installation and operation, provided that all instructions in the operating manual and the valid safety and accident prevention regulations are observed.

Only qualified and authorised persons should work on the installation and repair of electrical equipment.

Alterations or modifications to the drive are not permitted. Warranty repairs may only be carried out by the manufacturer. Only original spare parts and accessories are to be used for post-warranty repairs. The operational safety of the delivered drive is only guaranteed when used in accordance with the manufacturer's specifications. The limit values specified in the technical data may not be exceeded under any circumstances.

1.2 Supplementary safety provisions

Important safety and accident prevention regulations must be observed when installing, commissioning, maintaining the drive. The following regulations require special attention:

- Fire regulations.
- Accident prevention regulations.

1.3 General comments on hazards and safety measures

The specified notes are general guidelines when using INEL devices in combination with other devices. These indications must be strictly adhered to when installing and operating the equipment.



IMPORTANT! The power cable is permanently attached to the device. If it is damaged, the device must not be used any further.



CAUTION Warning of possible damage to the drive, roller shutter, roller shutter box, façade, etc. if the appropriate precautions are not taken:



Danger - means that there is a risk to the life and health of the user if appropriate precautions are not taken:

- Before installing the drive and setting the end positions, check the fixing of all screw connections.
- Before switching on, it is necessary to check that the permissible device voltage is compatible with the local supply voltage.
- The applicable safety and accident prevention regulations must be observed.
- A circuit breaker that allows safe disconnection of the power supply (e.g. a fuse disconnecter) should be used, installed so that all connections can be easily disconnected.
- Wires and cables should be checked regularly for insulation damage and conductor continuity.
- If the cables are found to be damaged, the damaged cables must be replaced after the power supply has been switched off immediately.

1.4 Warning

- Don't let children play with the controls.
- Keep remote control devices out of the reach of children.
- Watch the blind moving and keep people away until it is fully open or closed.
- Roller shutter users should be trained and instructed how to operate the roller shutter and the dangers associated with its use. People can be considered trained if the employer, administrator or owner has allowed them to operate the roller shutter and has instructed them on how to use it.

2. Assembly instructions

2.1 Safety rules

- Installation of the drive must only be carried out by suitably qualified persons.
- The weight of the roller shutter must not exceed the load capacity of the drive as indicated in the selection table (at the end of these instructions).
- The proper way of laying the cable (loop facing downwards) further protects the drive from possible water damage.
- Do not drill holes in the motor housing.
- Protect the engine from contact with any fluid.
- Avoid crushing, hitting the motor and protect the motor from falling.

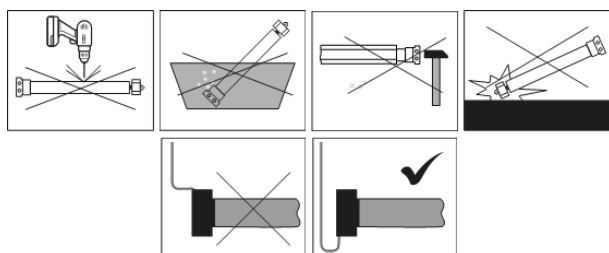


Figure 1

2.2 Assembly of the drive

- Attach the mounting bracket (A) to the side of the roller shutter box, connect the adapter (D) to the motor drive ring.
- Place the carrier (E) on the motor shaft and secure it with the pin (F), then slide the entire drive into the winding tube (G).
- Connect the winding tube and the drive carrier with screws or rivets (H)

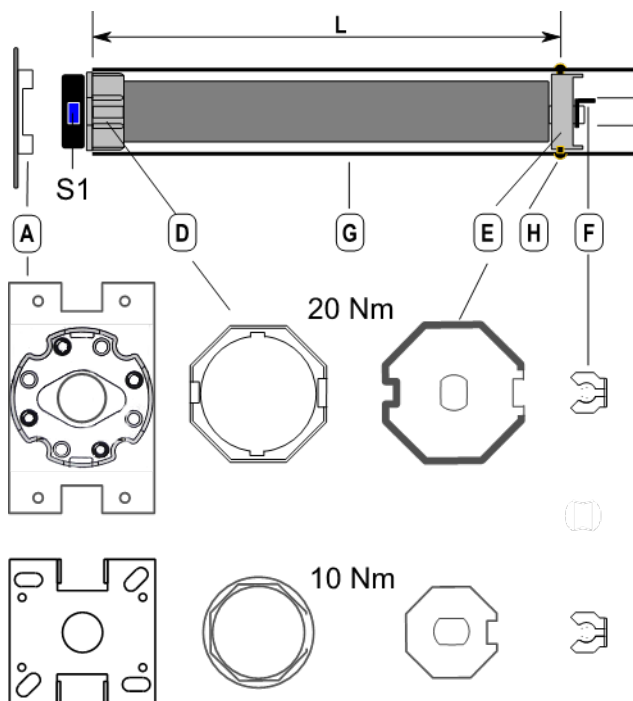


Figure 2

ATTENTION The motor is equipped with an internal thermal switch that allows the roller shutter to run continuously for approximately 4 minutes. After this time, the temperature inside the motor exceeds the permissible value, which causes the power supply to be cut off. Re-operation of the roller shutter is possible after the motor has cooled down (this takes several to several minutes).

2.3 Electrical connection



MAKE ALL CONNECTIONS ONLY WHEN THE SUPPLY VOLTAGE IS SWITCHED OFF!



Poor installation of the roller shutter causes unwanted motor stops.

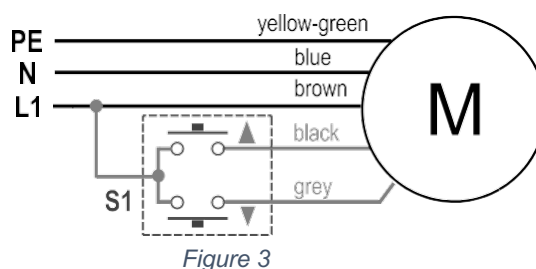


Figure 3

The use of the S1 button is optional. This button allows you to manually control the movement of the roller shutter directly up and down. Pressing and releasing the "up" button will raise the roller shutter and it will stop when you press and release the "up" or "down" button. We recommend the use of a button without hold-down (such a button returns to its rest position when pressure is released)

In this version of the actuator, the L1 phase must be connected to the S1 button. When the S1 pushbutton will not be used, the black and grey wires should be insulated and left unconnected or connected to the neutral N wire.

3. Start-up and configuration of the drive in the InelSmart system

Once the drive is powered up, it can be added to the system.

The registration of the drive into the system, its configuration and how to control it are described in the manuals of: the -PIL99TSTX, -PIL01DLX, -PIL05DLX remote controls and the InelSmart control panel.

If the device is not detected during the automatic search, press button S1 on the motor head for approx. 1 second (see Fig. 2).

Before commissioning/programming the drive check the condition of the armouring, guides, roller shutter box and whether a window sill is fitted!

The roller shutter box and the guides should be free of dirt and ensure free movement of the roller shutter armour along its entire length. Dirt from building materials or guides that are too tight can cause damage to the drive and roller shutter, which is not covered by the guarantee.

4. Operation of the overload detection function

During both upward and downward movement of the roller shutter, the P type drive tests the degree of motor overload (drop in RPM). If the speed drops by a predetermined value (determined depending on whether the motor is in or out of the end position zone), the motor is stopped and further movement in that direction is blocked.

When stopping three times at the same point, the motor sets a limit position at this point. In the zone defined by a quarter turn of the winding tube upwards and a quarter turn downwards from this point, the motor shows greater sensitivity to overload. In this way, the motor will stop gently at the hanger-block at the bottom and the stopper at the top of the window.

The drive supplied by the manufacturer has factory settings. Adaptation of the drive to the applied roller shutter takes place after

3 stops in the upper and lower end positions. From this point, the drive is fully operational.

The drive detects the reduced speed caused by the motor overload and then sets a motion lock for the direction in which it was moving before stopping. A minimum of 1-second movement in the opposite direction is required to unlock the ability to move.

5. Problem solving

Problem: Engine does not respond to commands.
Cause: Thermal protection has tripped.
Solution: Wait 10 to 20 minutes.

Problem: The engine rotates in a direction that is not in line with the commands from the remote control.

Cause: Motor mounted backwards.
Solution: Reverse the direction of movement of the motor using the remote control PIL99TSTX -/
 PIL01DLX/ -PIL05DLX -/

Problem: InelSmart -app.
Cause: Spontaneous engine stop.
Solution: Locking of the armour in the guides.
 Check the roller shutter guides and slats of the armouring.

6. Technical data

	YYGL 35PRX- 10/17	YYGL 45PRXSH -10/15	YYGL 35PRX- 13/14	YYGL 45PRX- 20/15	YYGL 45PRX- 40/15
Power supply	230 V 50Hz	230 V 50Hz	230 V 50Hz	230 V 50Hz	230 V 50Hz
Torque	10 Nm	10 Nm	13 Nm	20 Nm	40 Nm
Power	126 W	132 W	126 W	156 W	218 W
Speed	17 rpm.	15 rpm.	14 rpm.	15 rpm.	15 rpm.
Indexe of protection	IP 44	IP 44	IP 44	IP 44	IP 44
Continuous operating time	4 min.	4 min.	4 min.	4 min.	4 min.
Length	555 mm	395 mm	555 mm	530 mm	580 mm
Weight	1.55 kg	1,55 kg	1.55 kg	2.0 kg	2,5 kg

7. Motor selection table

Torque [Nm].	Winding tube diameter [mm]	Roller blind length [m]			
		1,5	2,0	2,5	3
Permissible weight of roller shutter for the above lengths [kg].					
10	Φ = 40	20	19	18	17
10	Φ = 50	17	16	15	14
10	Φ = 60	14	13	12	11
13	Φ = 40	28	26	24	22
20	Φ = 60	42	40	38	36
40	Φ = 60	83	79	72	69

The above figures are estimates - they depend on many factors (correct installation, armour friction coefficient, weather conditions and others).

8. Handling of waste equipment



It is forbidden to place used equipment together with other waste. Dispose of in a specially designated place. The household plays an important role in the waste equipment recycling system. By properly separating waste, including waste equipment and batteries, households ensure that waste equipment does not end up in municipal waste but in a specially designated place and, after recycling, can be used as a raw material for reuse.



Przedsiębiorstwo Informatyczno-Elektroniczne INEL Sp. z o.o. , ul. Mostowa 1, 80-778 Gdańsk, as manufacturer of the product, hereby declares that the drive described in this manual and used in the manner specified herein complies with the essential requirements of the relevant EU directives, in particular Directive 2006/42/EC and Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at www.inel.gda.pl .

VERSION OF INSTRUCTIONS 6/2026