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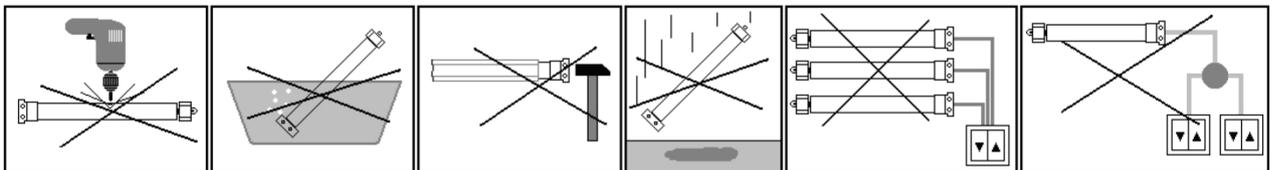
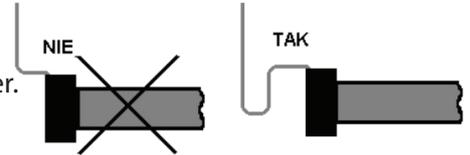


**Instruction of drive installation and use
YYGL35S / YYGL45S / YYGL45M / YYGL59M**

Safety rules:

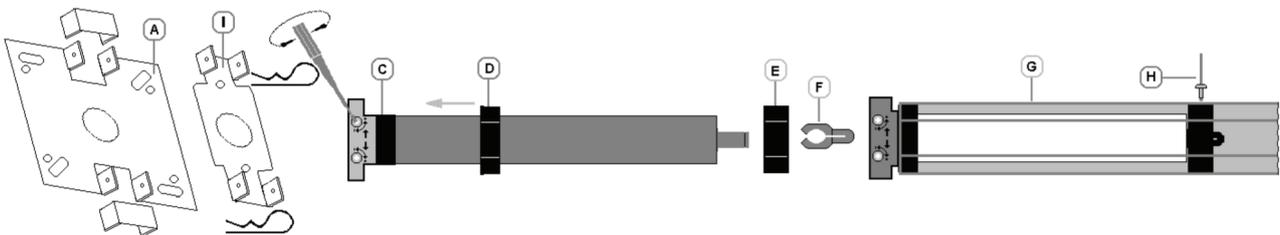
Installation of drive should be done only by qualified personnel.

1. The weight of the roller- blind should be tailored for the engine power.
2. Proper placement of the cable additionally protects the drive from possible damage caused by water.
3. Do not puncture the engine along the entire length of the engine.
4. Protect the engine from contact with any liquid.
5. Avoid bending, hitting the engine and protect the engine from fall.
6. Do not connect more than one engine to one switch and more than one switch to one drive.



Engine installation:

1. Attach installation handle to the side of the roller- blind (A), connect adapter with engine drive ring (C/D).
2. Place jud on the engine pivot and protect it with a pin (E/F) and insert the whole engine into the beam pipe (G).
3. Connect the beam pie and jud with a tap bolt or a rivet (H).

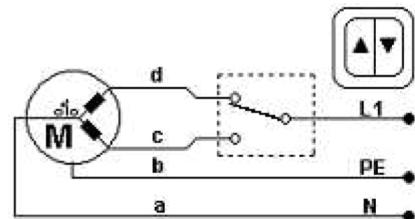


ATTENTION!

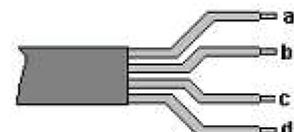
The engine is equipped with a built- in thermal switch, which allows for 4 minutes of work. After this time the temperature inside the engine exceeds the accepted limit, which leads to power being cut. For the roller- blind to start again the engine needs to cool down(this lasts from a couple to a dozen or so minutes). Use of this kind of switch increases the engine durability.

Electrical installation

Any installation should be made with no power supply. L1 (phase) should be connected through the bipolar louvered connector or controller equipped in transmitters.



- a - Blue (N neutral)
- b - Yellow/ green (PE protective)
- c - Brown (clockwise direction)
- d - Black (anti- clockwise direction)



Limit- switch regulation

In order to set the limit position of the roller- blind one should adjust electro- mechanical breakers. This is done using knobs at the head of the engine.

Arrows next to the knobs show the direction the engine is moving and the right regulation bolt for this direction. Should the roller- blind be at the opposite side of the engine than the installing person (typical situation) then the knob with an arrow (upwards) regulates the placement of the lower blind, the knob with an arrow (downwards) regulates upper blinds.

Turning the knob in the direction {+} leads to an increased range of movement in a given direction, turning the knob in direction{-} results in decreased range.

Upper position setting

1. Start the roller- blind in the direction of opening, until it stops in the factory- set final position. Should the roller- blade not stop before it reaches its upper position, stop the drive, lower the roller- blind, turn the knob several dozen times towards {-} and try again. In an exceptional situation, the procedure should be done several or so times.
2. Turning the knob (marked with an arrow) towards {+} bring the roller to its desired position.
3. In case the desired position is exceeded one should lower the roller- blind, turn the knob a couple of times towards {-} and repeat the procedure from point one.

Table enabling the selection of proper tubular engine

The table below helps one to choose the right tubular engine. It gives the max roller- blind weight which, depending on the length of the roller, may load our engines. For different engines and different pipe diameters, maximum weights are different, which is given in the table:

Torque./Roller- blind weight	1,5m	2m	2,5m	3m
YYGL35S - 10/17 M=10Nm Ø=40mm	20kg	19kg	18kg	17kg
YYGL45S - 20/15 M=20Nm Ø=50mm	46kg	44kg	41kg	39kg
YYGL45S - 20/15 M=20Nm Ø=60mm	42kg	40kg	38kg	36kg
YYGL45S - 40/15 M=40Nm Ø=60mm	83kg	79kg	72kg	69kg
YYGL45S - 40/15 M=40Nm Ø=70mm	70kg	68kg	66kg	64kg
YYGL45M - 50/12 M=50Nm Ø=60mm	99kg	95kg	89kg	85kg
YYGL45M - 50/12 M=50Nm Ø=70mm	88kg	85kg	83kg	80kg
YYGL59M - 100/10 M=100Nm Ø=70mm	178kg	174kg	169kg	162kg
YYGL59S - 100/10 M=100Nm Ø=70mm	178kg	174kg	169kg	162kg

The estimation above are used with drives with built-in radio controllers (R).



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