Assembly Instructions Electric Rack Drive

for ventilation control Müller Light and Ventilation Ridge

1. General Information

Be sure to read this manual carefully and follow the instructions. Keep it for future use and maintenance. Consider the configuration of the switches, the corresponding technical data and the installation instructions. By improper use or improper operation or incorrect installation the system or other objects may be damaged.

2. Safety

These instructions are intended for professionally skilled personnel only.
Before beginning installation, the integrity of the device must be checked. The unit does not fit in environments where the atmosphere is explosive. The presence of gas or inflammable fumes is a serious security risk.
Verify that the installation location is sufficient for specific technical stability issues.
The manufacturer is not responsible for any damage caused by improper use.
Do not clean the device with solvents or water jets. Do not submerge in water.
All repairs must be carried out by qualified personnel. Always demand the use of original spare parts. If no original spare parts are used, the proper operation of the appliance and the safety of persons and objects may be affected; it also may void the device warranty. Please contact the retailer where you purchased the device in case problems should occur or if more information is needed.
For further important safety instructions see the drive manual provided.

3. Marking

The CE mark confirms that the actuator complies with the essential health and safety requirements that are prescribed by the European directive of the device.

4. Technical Data

Rack Drive 12 mm
Thrust/traction force: 1000 N
Consumption / power: 0,22 A
Stroke: 350 mm
Dimensions: 585 x 165 x 112 mm
Weight: 3105 g

Power supply: 230Vac +-10%
Positioning speed without load: 12,5 mm/s
Operating temperature: -10° / +60°
Obstacle detection: yes

Frequency: 50 Hz
Protection class: IP65

4.1 Power Supply

The actuator can be powered by mains voltage 230 VAC (50Hz) (tolerance ± 10%), with 3-wire power line.

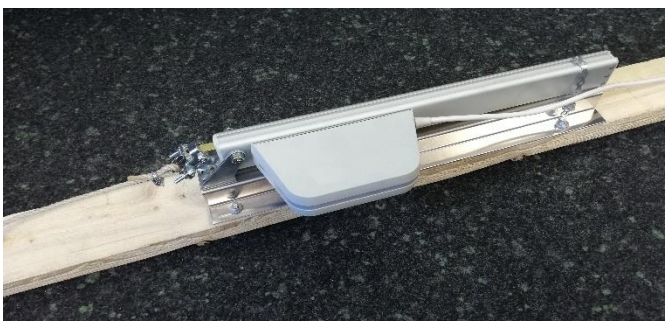
4.2 Maximum Thrust & Traction Force

The actuator has a maximum thrust / traction force of 1000 N (100 kg)!
If the ventilation flaps on both sides of the light ridge are coupled and powered by one drive, you should pay particular attention to the maximum traction force. Through long traction ropes and many diversions, the required thrust / traction force can exceed the drive. In this case, a separate drive is necessary per each side.

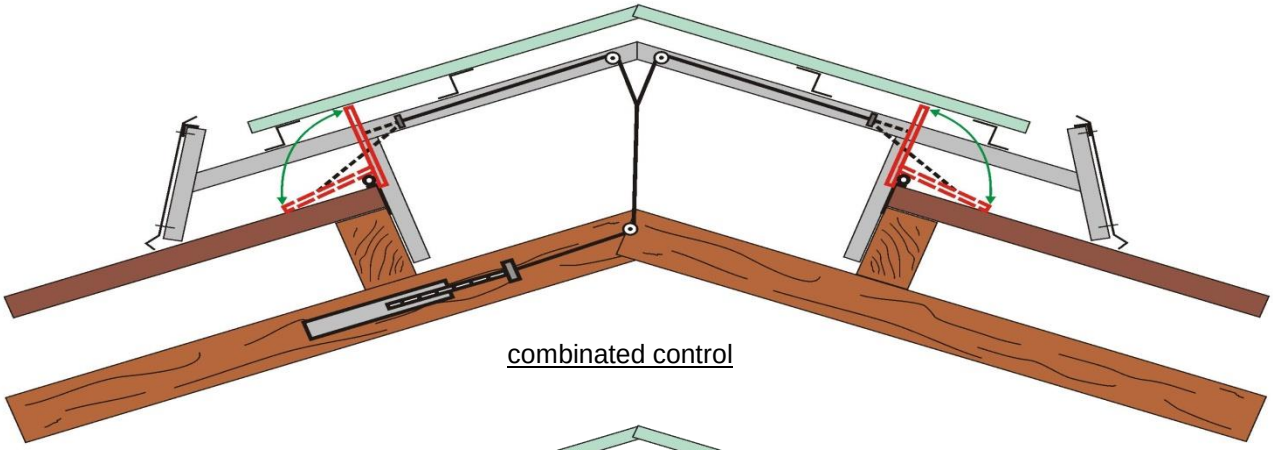
5. Assembly

5.1 The Rack Drive

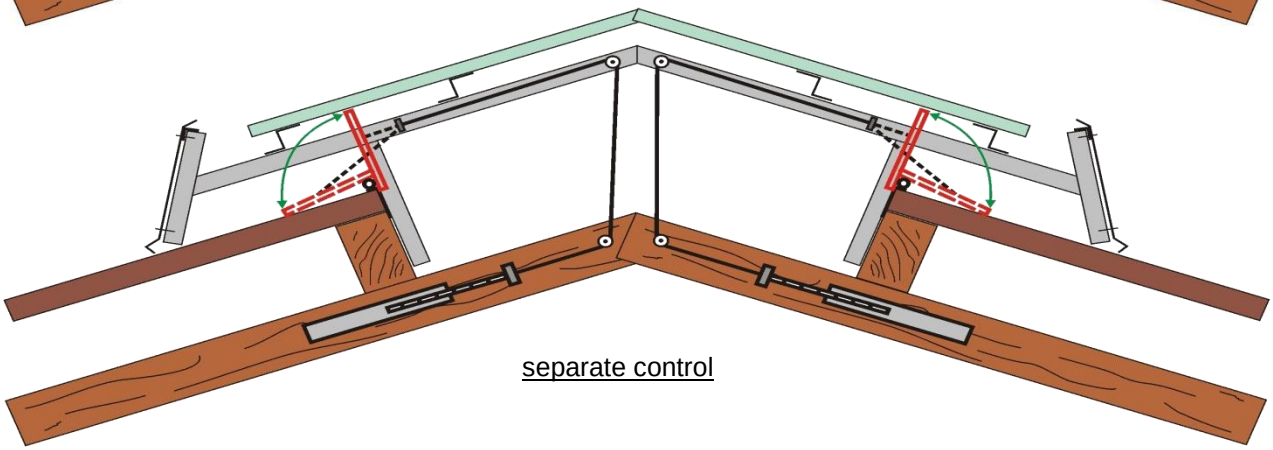
The actuator sits on a rail (pre-assembled).
This rail can be attached to the side brackets at the selected location (the fastening material for attaching the rail to wood is included in the scope of delivery).



5.2 Mounting position of the actuator (Example)



combinated control



separate control

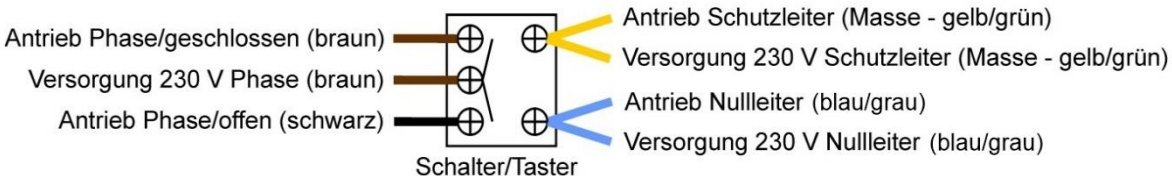
5.3 Connection of the traction rope

Attention! Always route the traction rope in alignment with the running rail and never up or to the side.

6. Control System and Electrical Connection

Control is executed via switch (see picture on the right).

Attention! It is essential to follow the instructions enclosed with the switch.
The rotatable red ring inside must be set to the push button function.



An automated control depending on indoor temperature, wind speed and precipitation is available as an option.
Ask your specialist dealer!

7. Adjustment of Drive

Attention! ***When the ventilation flaps are fully closed, the spindle of the drive must be completely retracted!***

If the ventilation flaps are already closed at a closing and the spindle is not yet retracted, traction of the drive of 1000 N is still exerted on the rope. This can lead to a damage of the ventilation regulation.

Basically, care should be taken to a perfect running of the traction rope and all moving parts of the system.