INTELLIGENT SOLUTIONS FOR AUTOMATING ALL WINDOWS

Safe • Sustainable in energy terms • Stylish in design
WE OFFER SECURITY AND SAFETY with products made in Germany. Thanks to involvement in ZVEI, VFF, VFE, DIN, EN, ISO and IEC. With flexibility and manufacturing depth. With farsighted management and committed staff.

A well known family company, AUMUELLER AUMATIC combines years of experience with enthusiasm and commitment to our clients’ needs. Thanks to our expertise, we can supply safe, user-friendly, well designed automation products for any window that are also sustainable from the energy standpoint.

A family company with a history lasting over four decades

We're based in Thierhaupten, Germany and have branches in Bristol (England), Beijing (China) and Moscow (Russia).

RELIABLE SMOKE EXTRACTION SYSTEMS FOR EMERGENCIES
ELECTRIC WINDOW DRIVES AND CONTROL TECHNOLOGY
ENERGY EFFICIENCY THANKS TO CONTROLLED NATURAL VENTILATION
COMFORT AND EASE IN OFFICES, SCHOOLS AND HOMES

AUMUELLER AUMATIC

WE'RE YOUR SINGLE SOURCE FOR DEVELOPING MANUFACTURING INSTALLING/MANUFACTURING
The quicker smoke gas can escape the more likely people can save themselves. The work of the emergency services is greatly eased and hence more likely to be successful if smoke extraction is efficient. AUMUELLER Ferralux® ensures safety with its efficient control systems, drives and natural smoke and heat extraction devices. On staircases, in lifts, in offices, on airports and in schools.

In buildings in which people are present hygienic air exchange must be ensured at all times. Fresh air makes concentrated learning and working and relaxed living feasible. Controlled automated user-independent ventilation via windows prevents damp and mildew. Controlled natural ventilation also saves energy and cuts costs. It is very highly recommended in Green Building Concepts (DGNB, LEED, BREEAM).

AUMUELLER Ferralux®
Reliable smoke extraction systems for emergencies.

AUMUELLER Vent
Controlled natural ventilation makes for energy efficiency

GET RID OF THE SMOKE!
FRESH AIR IN ALL ROOMS

Your benefits WITH AUMUELLER Ferralux®
✔ Protects life
✔ Keeps emergency escape route free of smoke
✔ Makes fire fighting easier
✔ Prevents follow-on fires

Our Vent goods and services
- Vent (natural window ventilation)
- Controlled natural ventilation (KNL)
- Service (installation, maintenance and repair of smoke and heat extraction systems)

AUMUELLER Ferralux® DRIVES
for electrically controlling RWA (smoke and heat extraction systems) windows
- Programmable control electronics
- Synchronised multiple drives
- Soft start and stop
- Maintenance-free design

Ferralux® SMOKE AND HEAT EXTRACTION SYSTEM CONTROL CENTRES
overseeing power supply and the control of RWA and ventilation drive systems
- Compact and modular
- Multifunctional
- Programmable
- Network capable
- Completely digital

Vent® window drives
Electrically controls ventilation windows allow:
✔ Safe and reliable opening and closing
✔ Small space requirement
✔ Stainless steel chains
✔ Programmable control electronics

Vent® control centres
oversee power supply and control of ventilation drives
- Compact
- Network capable
- Multifunctional
- Digital

OUR FERRALUX® GOODS AND SERVICES
- RWA (smoke and heat extraction systems)
- ASE (lift shaft smoke extraction)
- NRWG (natural smoke and heat extraction devices per EN 12101-2 [Smoke and heat control systems])
- Service (installation, maintenance and repair of smoke and heat extraction systems) Wärmeabzugsanlagen

Your benefits WITH AUMUELLER Vent
✔ Use of natural freely available resources
✔ High consumer acceptance
✔ Low investment and consumption costs
**AUMUELLER PRODUCT RANGE OVERVIEW**

A multitude of solutions to suit any need.

- RWA EMB8000 control unit
- RWA EMB7300 control unit
- LZ6 ventilation control unit
- LZ1 ventilation control unit
- KS2 chain drives
- KS4 chain drives
- KSA chain drives
- PLA spindle drives
- PL5 spindle drives
- SP spindle drives
- LKS rack and pinion drives
- FTA folding arm drives
- PV locking drives
- FVR/FVB locking drives
- FVM locking drives
- OFV olive window locking drives

**AUMUELLER SERVICE**

Your reliable partner.

AUMUELLER Service GmbH is a reliable expert partner with over forty years experience. We make sure your Aumueller equipment has a long service life— even after the sale!

Our very well trained technicians install, connect and commission your new Aumueller plant for you. You can take it for granted that they will do the job properly.

Expert regular maintenance and service is legally prescribed, contributes to ensuring a long service life and makes sure your Aumueller equipment stays reliable. We can also maintain and service other makes and have long experience in doing so.

Need troubleshooting? We will do it quickly, expertly and reliably. It doesn’t matter whether the equipment concerned is made by AUMUELLER or someone else.

**ALL-ROUND SINGLE SOURCE SERVICE**

**Installation**

Our very well trained technicians install, connect and commission your new Aumueller plant for you. You can take it for granted that they will do the job properly.

**Maintenance**

Expert regular maintenance and service is legally prescribed, contributes to ensuring a long service life and makes sure your Aumueller equipment stays reliable. We can also maintain and service other makes and have long experience in doing so.

**Service**

Need troubleshooting? We will do it quickly, expertly and reliably. It doesn’t matter whether the equipment concerned is made by AUMUELLER or someone else.

**SCOPE OF MAINTENANCE AND SERVICE**

- **Public sector**
  - RWA, natural ventilation, gates, barriers, personnel barriers
- **Commercial enterprises**
  - RWA, natural ventilation, gates, barriers, personnel barriers
- **Private homes**
  - Gates, barriers

**AUMUELLER SERVICE GmbH**

- 📞 +49 (0)8271 42596-20
- 📧 info@aumueller-service.de
RWA EMB8000 CONTROL UNITS
Modular RWA control units with data bus technology

- Control units of modular design with digital bus technology and power supply to control 24 V DC electric window drives
- Control panel per prEN 12101-9
- Power supply per EN 12101-10
- Output power with little residual ripple (<0.5 Vpp) - compatible with all standard drives
- Simple compact installation of the modules on a mounting rail with many combination options
- Easy configuration of RWA and ventilation groups via module sequence or USB programming
- Up to 32 control units can be included in a network
- Venting using software depending on wind direction can be set
- Decentralized RWA and ventilation systems are feasible
- Only one set of accumulator batteries is needed up to 72 A at a jumping time of 72 h
- All terminal clamps can be plugged in to make connection easy
- Integration in facility engineering systems via kNX
- Individual adjustment via comprehensive software options

TECHNICAL DATA
- Operating voltage 230 V AC (195 – 253 V AC, 50/60 Hz)
- Max. power consumption 2415 W
- Output voltage 24 V DC (20 – 28 V DC / <0.5 Vpp)
- Output current 5 A - 72 A
- Housing: sheet metal, RAL 7035 (light grey)
- VdS identification no. G512005

CHARACTERISTICS / FEATURES
- Control units of modular design with digital BUS technology and power supply for controlling 24 V DC electric RWA and controlled natural ventilation drives
- Control panel per prEN 12101-9
- Power supply per EN 12101-10
- Output power with little residual ripple (<0.5 Vpp) - compatible with all standard drives
- Simple compact installation of the modules on a mounting rail with many combination options
- Easy configuration of RWA and ventilation groups via module sequence or USB programming
- Up to 32 control units can be included in a network
- Venting using software depending on wind direction can be set
- Decentralized RWA and ventilation systems are feasible
- Only one set of accumulator batteries is needed up to 72 A at a jumping time of 72 h
- All terminal clamps can be plugged in to make connection easy
- Integration in facility engineering systems via kNX
- Individual adjustment via comprehensive software options

More details on the product here

EMB7300 RWA CONTROL UNITS
Compact RWA control units with wide capabilities.

- Compact units for controlling 24 V DC electric drives of RWA and controlled ventilation systems in small to medium sized premises such as staircases
- Control panel per prEN 12101-9
- Power supply per EN 12101-10
- Output power with little residual ripple (<0.5 Vpp) - compatible with all standard drives
- 1 RWA group with 1 (optionally 2) monitored ventilation lines
- Removable clamps for easy connection of message lines
- Connection of electric motors, compressed gas generators and magnets
- 2 message line inputs with cable monitoring for connecting
  - manual control equipment (HSE buttons)
  - Automatic smoke / heat alarms
- 1 ventilation button input (optionally 2) with OPEN - STOP - CLOSED functions
- 2 slots for relay cards for onforwarding event messages (Emergency open, Malfunction)
- 1 slot for BUS network cards (LON, KNX)
- Direct connection of wind / rain sensor
- Programmable via USB
- Integration in facility engineering systems via kNX and LON
- Optionally with HSE/LT integrated in the housing

TECHNICAL DATA
- Operating voltage 230 V AC (195 – 253 V AC, 50/60 Hz)
- Max. power consumption 805 W (20 A version)
- Output voltage 24 V DC (20 – 28 V DC / <0.5 Vpp)
- Output current 2.5 - 20 A
- Ambient temperature -5°C…+ 40°C
- Protection class IP30 IP40
- Housing on wall, sheet metal, RAL 7035 (light grey)
- Terminals 1.5 mm² / drives 4 mm² (rigid)
- VdS identification no. G 514001 (w/out HSE button or with orange HSE button)

CHARACTERISTICS / FEATURES
- Compact units for controlling 24 V DC electric RWA and controlled natural ventilation systems
- Control panel per prEN 12101-9
- Power supply per EN 12101-10
- Output power with little residual ripple (<0.5 Vpp) - compatible with all standard drives
- 1 RWA group with 1 (optionally 2) monitored ventilation lines
- Removable clamps for easy connection of message lines
- Connection of electric motors, compressed gas generators and magnets
- 2 message line inputs with cable monitoring for connecting
  - manual control equipment (HSE buttons)
  - Automatic smoke / heat alarms
- 1 ventilation button input (optionally 2) with OPEN - STOP - CLOSED functions
- 2 slots for relay cards for onforwarding event messages (Emergency open, Malfunction)
- 1 slot for BUS network cards (LON, KNX)
- Direct connection of wind / rain sensor
- Programmable via USB
- Integration in facility engineering systems via kNX and LON
- Optionally with HSE/LT integrated in the housing

More details on the product here
LZ6 VENTILATION CONTROL UNITS
Compact and multifunctional ventilation units

AUMUELLER ventilation control units safely and reliably control your window drives to ensure natural ventilation. In combination with weather, temperature and room sensors, they ensure adequate fresh air and pleasant comfort in everyday use. This cuts energy costs and is environment-friendly.

Products
- LZ6 10 A
- LZ6 24 A
- LZ6 30 A

CHARACTERISTICS / FEATURES
- Control units with accessories such as weather alarms and devices that control electric drives
- 24 V DC ensuring natural ventilation of rooms and facilities
- Output power with little residual ripple (<0.5 Vpp)
- Ventilation control units that can be operated in parallel (cascaded)
- Combining of several ventilation groups in one control unit
- Ventilation button inputs with OPEN-STOP-CLOSED function and 2 switching priorities
- Configurable outputs for control using command continuation or dead man operation
- Drive lines individually fused
- Suprordinate input for e.g. potential-free wind and rain signals
- Suitable for inclusion in controlled natural ventilation systems
- Various display and operating elements
- Flat AP housing suitable for installation in false floors and ceilings
- Bus interface for integration in GLT systems via LON and KNX
- Digital AUMUELLER S12 drive interface
- Expandable to 8 ventilation groups

TECHNICAL DATA
- Operating voltage 230 V AC (195 – 253 V AC, 50/60 Hz)
- Power consumption 1518 W (30A variant)
- Output voltage 24 V DC (20 – 28 V DC / 0.5 Vpp)
- Output current 10/24/30 A
- Inputs 6x ventilation button lines with 2 priorities
- Outputs 6x drive lines
- 1x 24 V DC / 500 mA (e.g. for rain sensor)
- Displays Operation, output voltage in OPEN / CLOSE direction
- Slots BUS module (LON, KNX)
- Housing sheet metal, RAL 7035 (light grey)
- Dimensions (W × H × D) 420 × 300 × 144 mm
- Terminals Threaded 2.5 mm² (rigid) terminals
- Protection class IP30

LZ1 VENTILATION CONTROL UNITS
Compact and multifunctional ventilation units

AUMUELLER ventilation control units safely and reliably control your window drives to ensure natural ventilation. In combination with weather, temperature and room sensors, they ensure adequate fresh air and pleasant comfort in everyday use. This cuts energy costs and is environment-friendly.

Products
- LZ1 2.5 A
- LZ1 2.5 A KNX

CHARACTERISTICS / FEATURES
- Control units with accessories such as weather alarms and devices that control electric drives
- 24 V DC ensuring natural ventilation of rooms and facilities
- Ventilation control units that can be operated in parallel (cascaded)
- Ventilation button inputs with OPEN-STOP-CLOSED function and 3 switching priorities
- Configurable inputs for control using command continuation or dead man operation
- Suitable for inclusion in controlled natural ventilation systems
- Various display and operating elements
- Flat AP housing suitable for installation in false floors and ceilings
- Also available as KNX variant
- Digital AUMUELLER S12 drive interface/s

TECHNICAL DATA
- Operating voltage 230 V AC (195 – 253 V AC, 50/60 Hz)
- Power consumption 60 W
- Output voltage 24 V DC (20 – 28 V DC / 0.5 Vpp)
- Output current 2.5 A
- Inputs 1x ventilation button line with 3 priorities
- Outputs 1x drive line
- 1x 24 V DC / 500 mA (e.g. for rain sensor)
- Displays Operation, output voltage in OPEN / CLOSE direction
- Slots BUS module/s (LON, KNX)
- Housing sheet metal, RAL 7035 (light grey)
- Dimensions (W × H × D) 420 × 300 × 144 mm
- Terminals Threaded 2.5 mm² (rigid) terminals
- Protection class IP30

More details on the product here
**KS2 CHAIN DRIVES**
Safety in a very small space

With a force of 250N and a compact drive size - which allows profile integrated mounting - KS2 chain drives are optimally suited for reliable opening and closing of windows.

**CHARACTERISTICS / FEATURES**
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Versions R (right) or L (left) and TWIN available
- Housing of anodised aluminium or RAL colours
- High quality side bow chains of stainless steel with no projecting rivet heads
- Suitable for installation concealed in frame profiles
- Rigid drive assembly on the frame without brackets
- Programmable parameters of intelligent S12 control electronics
- Synchronised multiple operation and sequential control
- Soft start and stop at end limits
- Stroke length, speed, reversing of overload shutdown during closure
- Integrated plugging in
- Compatible with the plug-in M-COM® Click configuration module

**TECHNICAL DATA**
- Type 24V DC, S2/S12 or 230V AC, S12
- Tensile force max. 250 N (TWIN 500 N)
- Stroke length 50 – 1000 mm – programmable
- Speed 5 – 14 mm/s – programmable
- Housing (W x H) 42 x 26 mm, length dependent on stroke
- Extension mechanism Rigid backed side bow chain of stainless steel without projecting rivet heads
- Variants R (right), L (left), TWIN, Z, Set 230V/24V
- Protection class IP 32

More details on the product here

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**KS4 CHAIN DRIVES**
Innovative power in a very small space

With a force of 400 n and very compact housing size of just 35 x 24 mm (W x H) KS4 chain drives are currently the most powerful RWA drives of their class on the market.

**CHARACTERISTICS / FEATURES**
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Housing of anodised aluminium or RAL colours
- High quality side bow chains of stainless steel with no projecting rivet heads
- Suitable for installation concealed in frame profiles
- Rigid drive assembly on the frame without brackets
- Feedback of „CLOSED“ end stop (max 24 V, 500 mA)
- Programmable parameters of intelligent S12 control electronics
- Feedback of „OPEN“ end stop (max 24 V, 500 mA)
- Synchronised multiple operation and sequential control
- Soft start and stop at end limits
- Stroke length, speed, reversing of overload shutdown during closure
- Integrated plugging in
- Compatible with the plug-in M-COM® Click configuration module

**TECHNICAL DATA**
- Type 24V DC, S2/S12 or 230V AC, S12
- Tensile force max. 400 N (TWIN 800 N)
- Stroke length 50 – 1000 mm – programmable
- Speed 5 – 20 mm/s – programmable
- Housing (W x H) 35 x 24 mm, length dependent on stroke
- Extension mechanism Rigid backed side bow chain of stainless steel without projecting rivet heads
- Variants R (right), L (left), TWIN, Z, Set 230V/24V
- Protection class IP 32

More details on the product here

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**Products**
- KS2 - 24V DC/230V AC
- KS2 TWIN
KSA CHAIN DRIVES
Powerful and safe.

AUMUELLER KSA chain drives are made for forces of from 600 to 1200 N. Their compact size makes KSA chain drives optimal for controlling windows in facades and roofs.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- TWIN and D versions with two chains and double power available
- Adjustable chain tension
- Mechanical chain unlocking
- Housing of anodised aluminium or RAL colours
- High quality rugged stainless steel chain
- Programmable parameters of intelligent S12 control electronics
  - Synchronised multiple operation and sequential control.
  - Soft start and stop at end limits.
  - Stroke length, closing force, speed.
  - Reversal of overload shutdown during closure.
  - Integrated plugging in.
- Suitable for operation with M-COM for automatic configuration of synchronous operation and sequential control.

TECHNICAL DATA
- Type 24V DC, S12 and 230V AC, S12
- Tensile force max. 600 N (TWIN 1200 N)
- Stroke length 50 – 1500 mm – programmable
- Speed 5 – 14 mm/s – programmable
- Housing (W x H) 56 x 40 mm (D 104 x 50 mm), length dependent on stroke
- Extension mechanism: Rigid backed chain of stainless steel
- Variants Solo, TWIN, D, Z
- Protection class IP 32

PLA SPINDLE DRIVES
Very compact and powerful.

AUMUELLER PLA spindle drives have, according to model range, forces of 600 - 1500 N. They have very compact housings of a mere 36 mm diameter and can be integrated in buildings without any negative effect on overall appearance. They are optimally suitable for controlling windows in facades and roofs.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Robust corrosion proof design in thin anodised aluminium housings (D = 36 mm), optionally in RAL colours.
- Their adjustable clamping ring and rear suspension makes them easy to install
- Stainless steel spindle and connecting tube, ball bearing mounted with end stop damping
- Programmable parameters of intelligent S12 control electronics
  - Synchronised multiple operation and sequential control.
  - Soft start and stop at end limits.
  - Stroke length, closing force, speed.
  - Reversal of overload shutdown during closure.
  - IP65 with GoreTex membrane
- Suitable for operation with M-COM for automatic configuration of synchronous operation and sequential control.

TECHNICAL DATA
- Type 24V DC, S3 and S12
- Tensile force 600 – 1600 N (depending on model)
- Stroke length 100 – 1000 mm
- Speed 4.0 – 12.5 mm/s (depending on model)
- Housing (D x L) D = 36 mm, length dependent on stroke
- Extension mechanism: Stainless steel spindle tube
- Variants Solo, Tandem, Synchro
- Protection class IP 65

More details on the product here
PLS SPINDLE DRIVES
Power packs for very heavy loads.

AMÜLLER’s PLS spindle drives feature force capabilities between 1500 and 5000 N and are optimally suitable for safely operating heavy windows in roofs. The compact housings of circular aluminium tubing integrate well in roof constructions.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Powerful heavy duty drives for loads up to 5000 N
- Robust corrosion proof design in anodised aluminium housings (D = 50 mm), optionally in RAL colours.
- Their adjustable clamping ring and (optional) rear suspension makes them easy to install
- Stainless steel spindle, ball bearing mounted with end stop damping
- Programmable parameters of intelligent S12 electronic load dependant cut-off system
- Synchronised multiple operation and sequential control without additional modules
- Soft start and stop at end limits.
- Stroke length, closing force, speed.
- Reversal of overload shutdown during closure.
- IP65 with GoreTex membrane
- Suitable for operation with M-COM for automatic configuration of synchronous operation and sequential control.

TECHNICAL DATA
- Type 24V DC, S12
- Tensile force 1500 – 5000 N
- Stroke length 300 – 1200 mm
- Speed 4.0 – 17.0 mm / s (depending on model)
- Housing (D x L) D = 50 / (60) mm, PLS 50 length dependant on stroke
- Extension mechanism Stainless steel spindle tube
- Variants Solo, Synchro
- Protection class IP 54

More details on the product here

SP SPINDLE DRIVES
Reliable as the technology is well proven

AMÜLLER SP spindle drives provide a drive force of 800 N. The attractive, rectangular aluminium housing is equipped with a dovetail joint on three sides, for particularly easy installation by means of clamping terminals. The end caps are made of black plastic. SP spindle drives are the preferred option for the reliable opening and closing of dormer windows and skylights.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation and RWA
- Rugged corrosion proof design
- Housing of anodised aluminium with end cap and base of plastic. Available in RAL colours too
- The lateral dovetail groove makes installation easy
- Phosphated steel spindle, anodised aluminium spindle tube, damped end positions
- 24V DC and 230V AC variants available
- Limit switches to protect against overload

TECHNICAL DATA
- Type 24V DC, S2 / 230V AC, S2
- Tensile force 800 N
- Stroke length 100 – 750 mm (230V AC 300 – 750)
- Speed 8.5 mm / s
- Housing (W x H) 43 x 76 mm, length dependant on stroke
- Extension mechanism Aluminium spindle tube
- Variants Z version with feedback contact
- Protection class IP 54 / IP 65

More details on the product here
LKS RACK AND PINION DRIVES
Electric window opening for RWA and natural ventilation

AMUELLER rack and pinion drives have a compact well-designed aluminium housing of rugged 30 x 30 mm square tubing that the rack and pinion moves into. The electronic load dependent cut-off system and the motor drive unit are installed in a laterally secured rounded grey plastic housing.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation and RWA
- Rugged corrosion proof design
- Compact anodised aluminium housing (30 x 30 mm)
- Grey plastic motor drive unit housing
- Their adjustable clamping ring and front or rear suspension makes them easy to install
- Rack and pinion of chromed steel with end stop damping

TECHNICAL DATA
- Type 24V DC, S2
- Tensile force 550 N (TV 1100N)
- Stroke length 100 – 1000 mm
- Speed 6.0 mm / s
- Housing tubing (W x D x H) 30 x 30 mm x length dependent on stroke
- Motor drive unit 40 x 113 x 156 mm
- Extension mechanism Rack and pinion of chromed steel
- Variants Solo/ T/ TV
- Protection class IP 54

Safe opening and closing of windows
Compact design
Synchronous running via connecting shaft
Electronic shutdown system

More details on the product here

FTA FOLDING ARM DRIVES
Electric window opening for RWA and natural ventilation

AMUELLER folding arm drives consist of a well-designed square aluminium housing and a laterally placed lever arm. When closed, the arm lies flat on the housing. Its opening angle is about 93 degrees. They can be used on doors as well as on windows to ensure a fresh air supply.

CHARACTERISTICS / FEATURES
- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Type
  - R – with roller - folding arm opens doors 90 degrees via roller to let fresh air in
  - DF – with lever to control swivelling windows that open inwards to 90 degrees
  - GF – with sliding rail for controlling swivelling windows that open outwards to 90 degrees
- Programmable potential-free contact, end stop or door open
- Rugged corrosion proof design
- Installation-friendly using drill holes in housing ends
- Programmable parameters of intelligent S12 control electronics
- Synchronised multiple operation and sequential control of up to 6 drives
- Soft start and stop at end limits
- Adjustable opening angle, closing force and speed
- Reversal of overload shutdown during closure
- Suitable for operation with M-COM for automatic configuration of synchronous operation and sequential control

TECHNICAL DATA
- Type 24V DC, S12
- Torque OPEN/CLOSED: 215 Nm / 215 Nm
- Opening angle 0 – 93 degrees
- Speed 2.0 degrees/s
- Housing tubing (W x D x L) 40 x 56 x 421 mm, aluminium
- Extension mechanism Lever 20 x 30 x 380 mm, aluminium
- Variants R/ DF/ GF
- Protection class IP32

Safe control of windows and doors
Compact design
Programmierbare Programmable control electronics

More details on the product here
UMUELLER locking drives have well designed square housings with plastic end caps. The stainless steel followers are of different shapes as needed for the fields of use. The window operating drives are easy to install using concealed drill holes.

**FVR/ FVB LOCKING DRIVES**

Electric window control for RWA and natural ventilation

**FV LOCKING DRIVES**

Reliable locking.

Powerful locking drive with 1000 N power for profile integrated installation. Threaded terminals that can be plugged in are integrated for easy installation. Adjustable 17 mm and 36 mm stroke to suit fastening rods.

**TECHNICAL DATA**

- Type 24V DC
- Force 600 N
- Running time 5 s
- Housing tubing (W x H) aluminium 35 x 35 mm, length dependent on model
- Followers Locking angle
- Variants FV1, FV3, FV4 with 1 – 3 locking points
- Protection class IP 32

**CHARACTERISTICS / FEATURES**

- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Type
  - **FV1** – without electronic shutoff or sequential control but with USKM module for RWA fixtures and fittings
  - **FV3** – with load dependent cut-off switch and sequential control for PL6 S1 / PL10 S1 drives
  - **FV4** – with electric cut-off and sequential control for S3 and S12 drives (star format wiring, drive current not via FV4 - sequential control via communications strand) suited for use with M-COM
- Number of locking points (VP)
  - 1 VP – housing length 420 mm in right or left versions
  - 2 VP – housing length 1200 mm or 2000 mm
  - 3 VP – Housing length 2000 mm
- Small locking angle for 18 mm spatial requirement on window frame
- Robust corrosion proof design in anodised aluminium housings (420x35x35 mm), optionally in RAL colours
- Easily installed thanks to concealed drill holes below the slanted end caps
- Wiring cable terminals under the end cap

**CHARACTERISTICS / FEATURES**

- For controlled natural ventilation, RWA and Ferralux® NRWG per EN12101-2
- Type
  - **FVR3/FVB3** – with load dependent cut-off switch and sequential control for PL6 S1 / PL10 S1 drives
  - **FVR4/FVB4** – with electronic cut-off and sequential control for S3 and S12 drives (star format wiring, drive current not via FVR4 - sequential control via communications strand) that can be used with M-COM
- Installation on frame inwards or wing frame outward
- Follower activates multi point locking systems via an additional closure roller
- Robust corrosion proof design in anodised aluminium housings (420x35x35 mm), optionally in RAL colours
- Easily installed thanks to concealed drill holes below the slanted end caps
- Wiring terminals and DIP switches for adjusting movement direction under the end cap

**PRODUCTS**

- **FVR** - Flügelmontage einwärts, Blendrahmen auswärts
- **FVB** - Blendrahmen einwärts

More details on the product here
**FVM LOCKING DRIVES**

Electric window control for RWA and natural ventilation

Powerful locking drive with 1000 N power for profile integrated installation. Threaded terminals that can be plugged in are integrated for easy installation. Adjustable 17 mm and 36 mm stroke to suit fastening rods.

**CHARACTERISTICS / FEATURES**
- For controlled natural ventilation, RWA and Ferralux NRWG per EN12101-2
- With electronic load dependant cut-off and sequential control for S3 and S12 drives (star format wiring, drive current not via FVM2 - sequential control via communications strand) that can be used with M-COM
- Suitable for installation integrated in the profile
- Follower activates multi point locking systems via an additional closure roller, can be installed either end and can be rotated 180 degrees
- Manual emergency unlocking
- Rugged corrosion proof design in stainless steel housing (473 x 25 x 25 mm)
- Wiring terminals and DIP switches for adjusting movement direction under the end cap

**TECHNICAL DATA**
- Type 24V DC
- Force 600 N
- Stroke 17 – 36 mm
- Running time 9 – 19 s
- Housing tubing (W x H x L) Stainless steel 25 x 25 x 473 mm, for profile installation
- Followers for multi point locking systems
- Protection class IP 32

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**OFV OLIVE WINDOW DRIVES**

Everything under control.

UMUELLER OFV locking drives are installed on the chamber gear boxes of proven window fittings instead of handles. They operate the window hardware exerting a torque of 19 Nm. They’re used to safely operate all window types, in particular those with turn and tilt mechanisms, together with various window drives.

**CHARACTERISTICS / FEATURES**
- For controlled natural ventilation, RWA and Ferralux NRWG per EN12101-2
- Type
  - With load dependent cut-off switch and sequential control for PL6 S1 / PL10 S1 (0.8 A) and S2/S3/S12 drives
- OFV1 M-COM – With electronic load dependant cut-off and sequential control for S3 and S12 drives (star format wiring, drive current not via OFV1 - sequential control via communications strand) that can be used with M-COM
- Turning angle adjustable to 90°/180°
- Opening direction left / right can be adjusted too
- Installed on the gearboxes of inwardly opening wings instead of window handles
- Follower activates multi point locking systems via the gearbox
- Rugged corrosion proof design in plastic housing
- Easily installed thanks to concealed drill holes
- Concealed terminals and DIP switches for adjusting purposes

**TECHNICAL DATA**
- Type 24V DC, S3
- Torque 10 Nm
- Turning angle 90° / 180° (left / right)
- Running time 4.5 - 9 s
- Housing tubing (W x H x L) Aluminium/ABS 40 x 156 x 83 mm, grey
- Followers: square for gearboxes
- Protection class IP 32

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**Products**
- FV MINI
- OFV1
- OFV M-COM

**More details on the product here**
www.aumueller-gmbh.de

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