

## SLIDE GATE OPENERS 24V



# ELKA



# ELKA GATE OPENERS

## PARTNER WITH COMPETENCE

We are a German manufacturer of gate openers and barrier systems of high quality with an experience of more than 40 years. We place a great value on high quality components, easy installation and customerfriendly service.

„Partner with competence“ - the management as well as the employees feel committed to this philosophy. ELKA stands for individual customer service. Fast order processing, short delivery times and adherence to deadlines are a matter of course for us. Our technicians at the service telephone know all products in detail and assist you during the planning of your projects. The ELKA-team is looking forward to your enquiries.

✓ Competent support

✓ Short delivery times and adherence to delivery dates

✓ Quality „Made in Germany“

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**NOVA 800**



**ORBIT 800A**



**ORBIT 800**



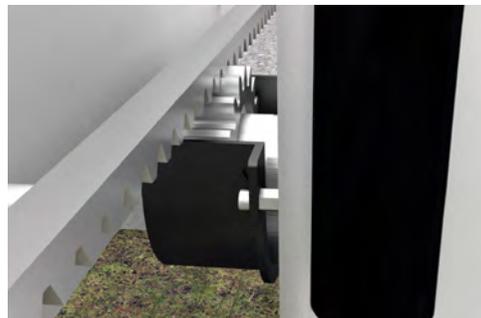
**ORBIT PRO 800**

# SLIDE GATE OPENERS 24V - DRIVE CONCEPT

## THE VERSIONS IN DETAIL

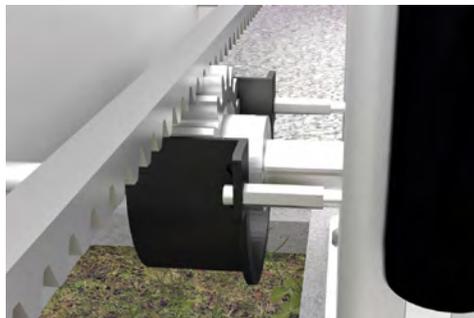
### 800 - powerful

- ✓ For gates up to 800kg and 14,000mm length
- ✓ Velocity approx. 12.6 m/min
- ✓ Toothed wheel made of plastic or steel



### 800-L - long drive shaft

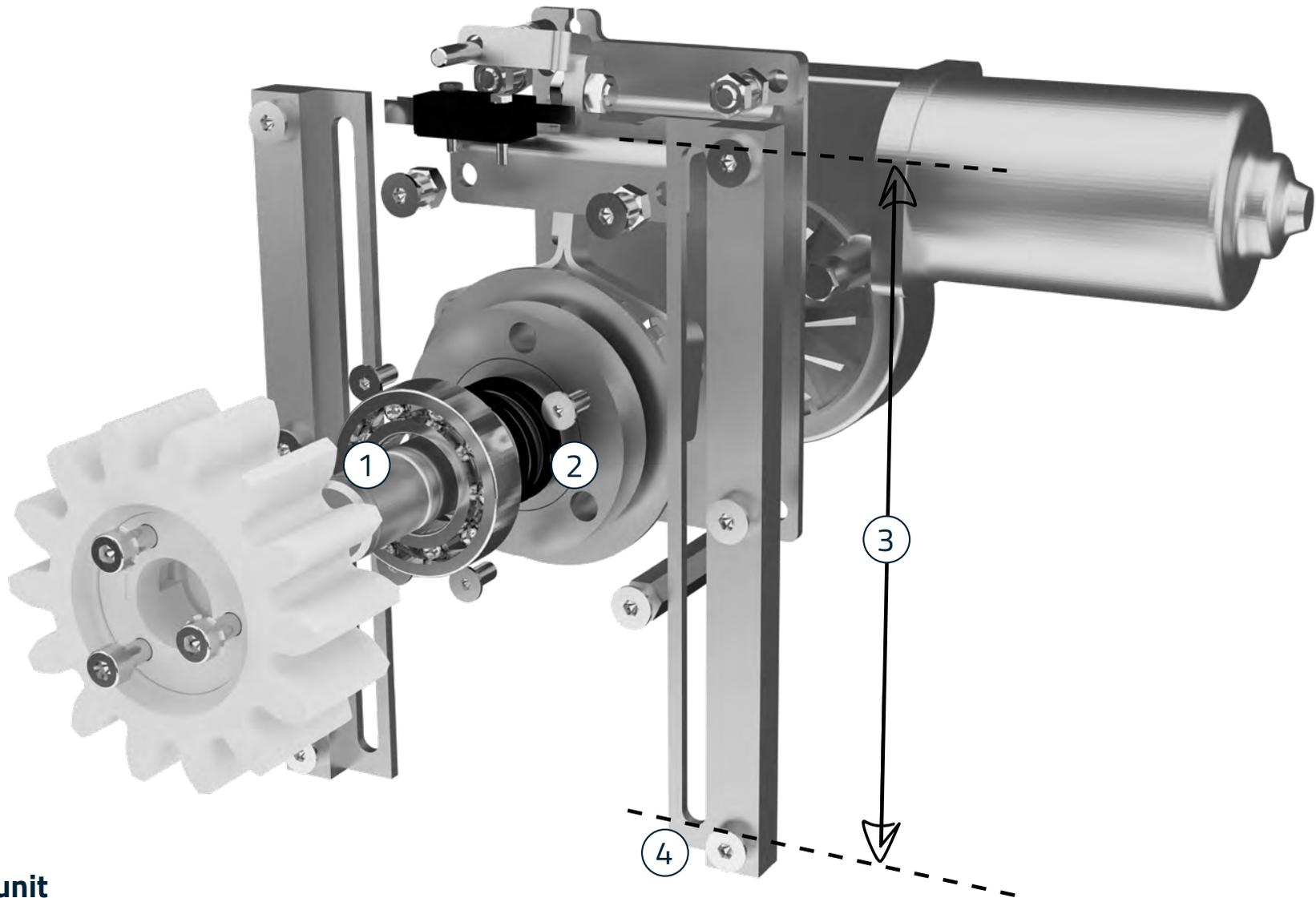
- ✓ For gates up to 600kg and 14,000mm length
- ✓ Velocity approx. 12.6 m/min
- ✓ Toothed wheel made of plastic or steel



### 800-S - the fast version

- ✓ With a larger toothed wheel for gates up to 300kg and 14,000mm length
- ✓ Velocity approx. 16.8 m/min
- ✓ Toothed wheel made of steel





## Robust drive unit

- ① Stable drive shaft,  $\varnothing 20\text{mm}$
- ② Integrated damper hub to reduce mechanical load
- ③ Easy and quick height adjustment up to 75mm
- ④ Particular deep positioning of the toothed wheel possible

# CONTROLLER MO 46

## FOR ALL SLIDE GATE OPENERS 24V

### One controller unit for all 24V openers

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✓ **Perfect running performance:**

Electronic speed control, soft-start and soft-stop

✓ **Simple operation:**

2x7-segment display and easy menu navigation

✓ **Safety:**

Stop and reversing for a short distance, photoelectric barrier connection with patented testing function, safety contact profile detection for OPEN and CLOSE separately, pre-warning time prior to opening and closing, dead man's mode

✓ **Fast analysis:**

Via LEDs at the inputs

✓ **Comfortable:**

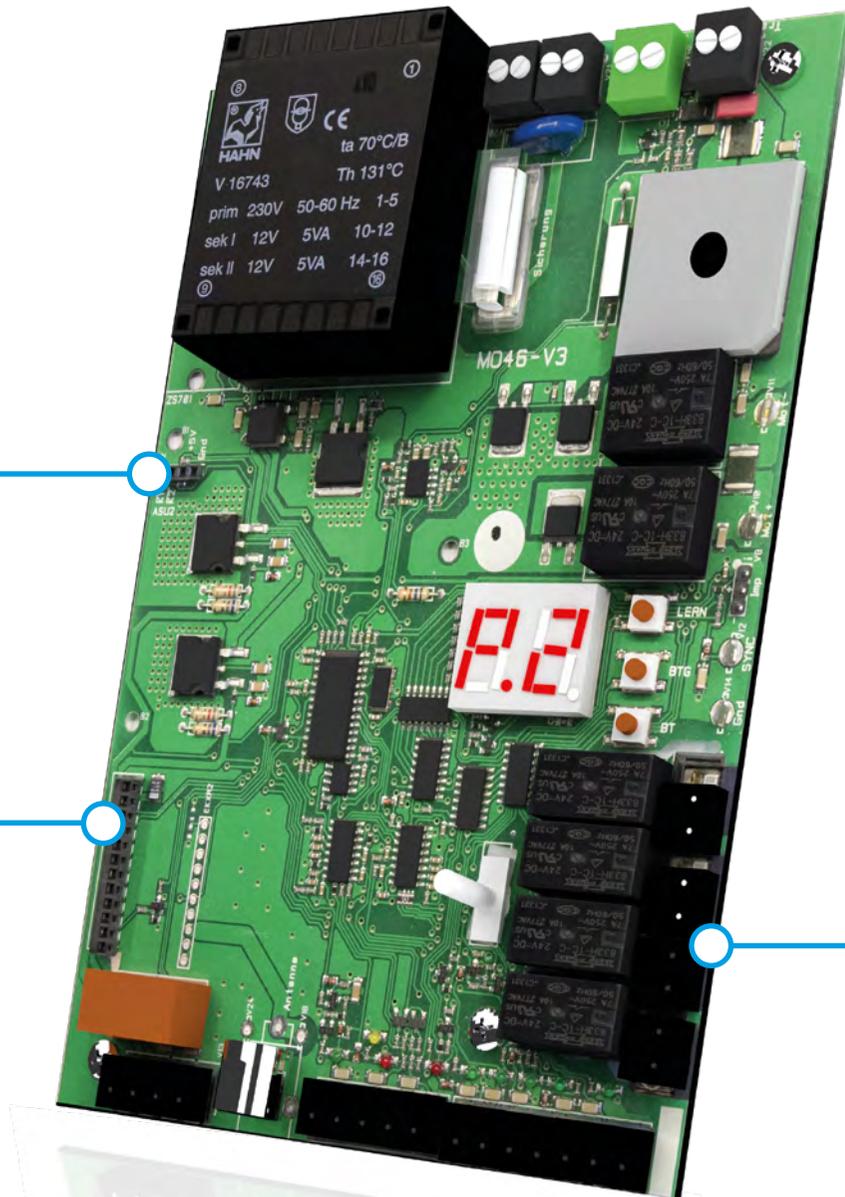
Complete and partial opening, connection of external devices e. g. traffic light or warning light, multi-functional relay e. g. for third radio remote control channel for exterior lighting, user-friendly arrangement in the drive unit

✓ **Expandable:**

7-daytimer module, remote control receiver

✓ **Optional:**

Operation with limit switches



## **NOVA 800 - THE CLASSIC SLIDE GATE OPENER**

FOR GATES UP TO 800kg AND 14,000mm LENGTH





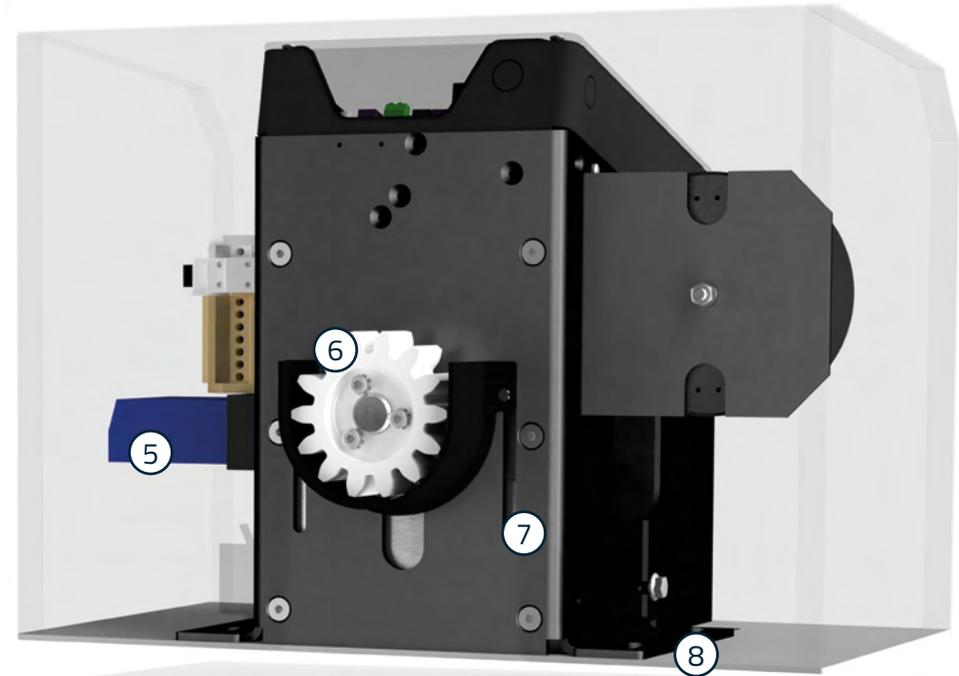
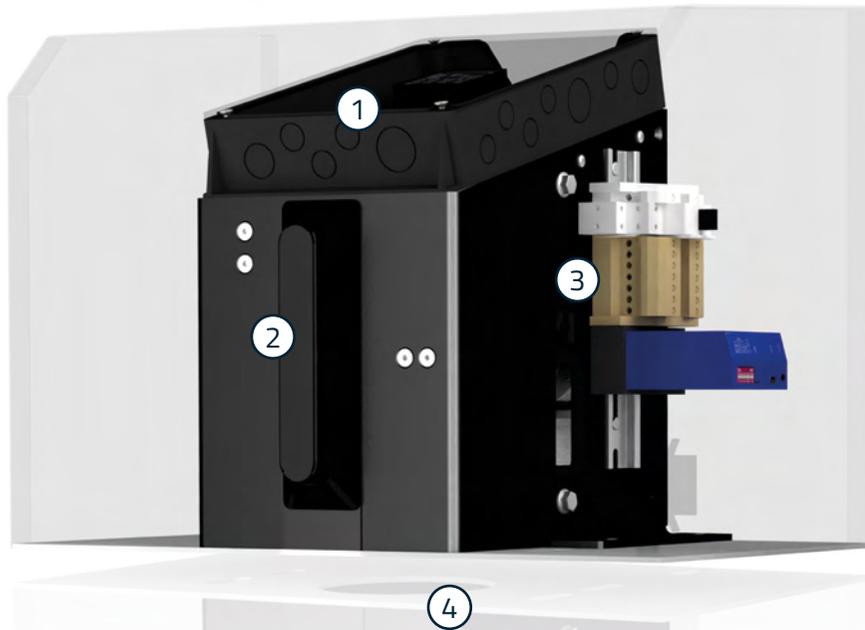
The robust slide gate opener offers a lot of space under its stainless steel hood for accessories, e. g. induction loops detector or timer. To remove the hood, unlock the swivelling lever lock and lift the hood. At the same time, the opening process interrupts the power transmission to the sliding gate (emergency release, e.g. in case of a power failure). Clear and orderly cable management, large cable bushings and professional plug-in terminals make the installation quick and easy.

✓ Stainless steel hood (lockable)

✓ Tool-less opening

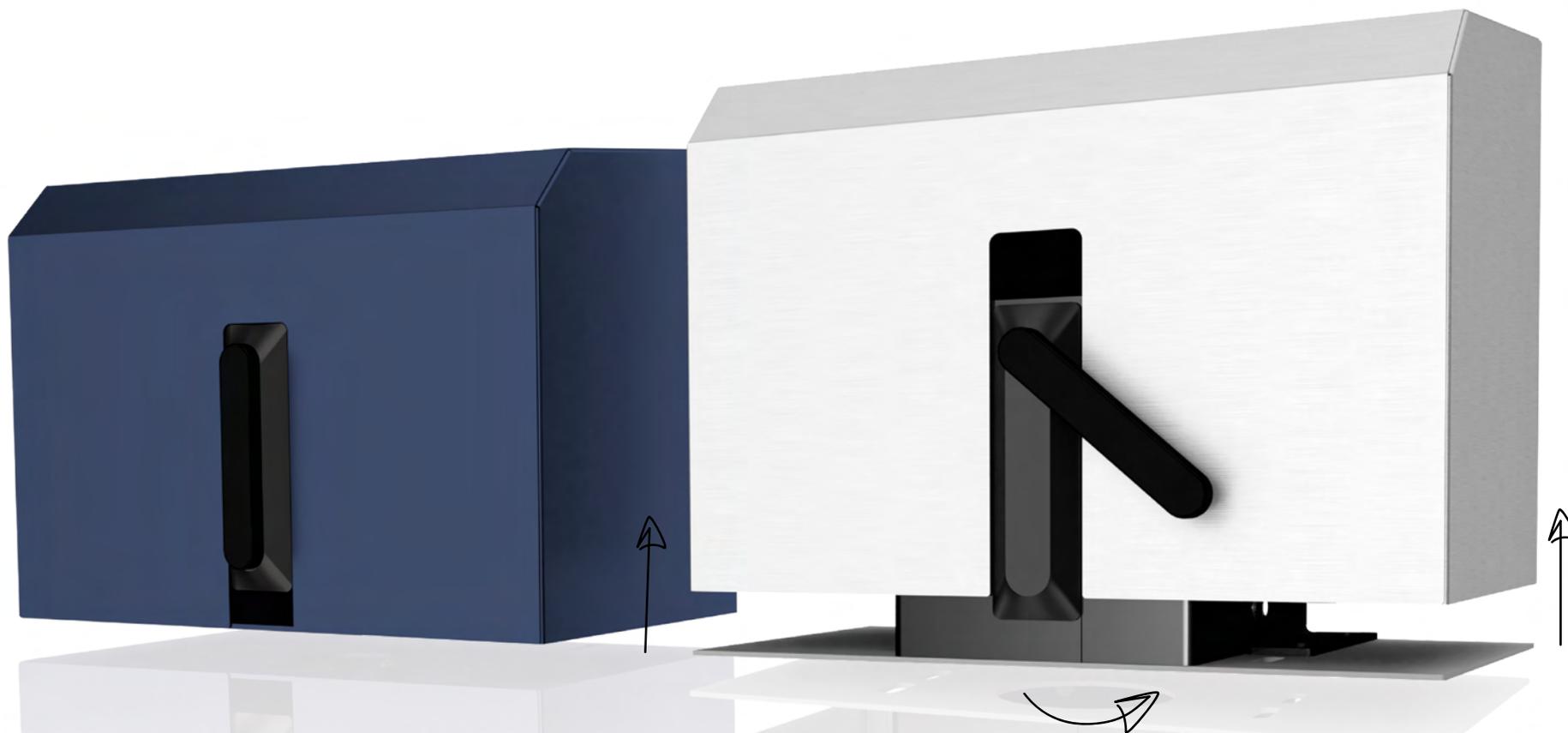
✓ Easy installation

# NOVA 800



- ① Controller MO 46
- ② Stainless steel hood with swivelling lever lock for comfortable unlocking
- ③ Plenty of space for additional equipment, terminal row (optional)
- ④ Clear wiring and comfortable cable bushings

- ⑤ Loop detector (optional) for evaluating an induction loop
- ⑥ Toothed wheel module 4 (plastic or steel) or module 5 (plastic)
- ⑦ Wide height adjustment range up to 75mm
- ⑧ Easily accessible mounting points for quick installation



### Special colours

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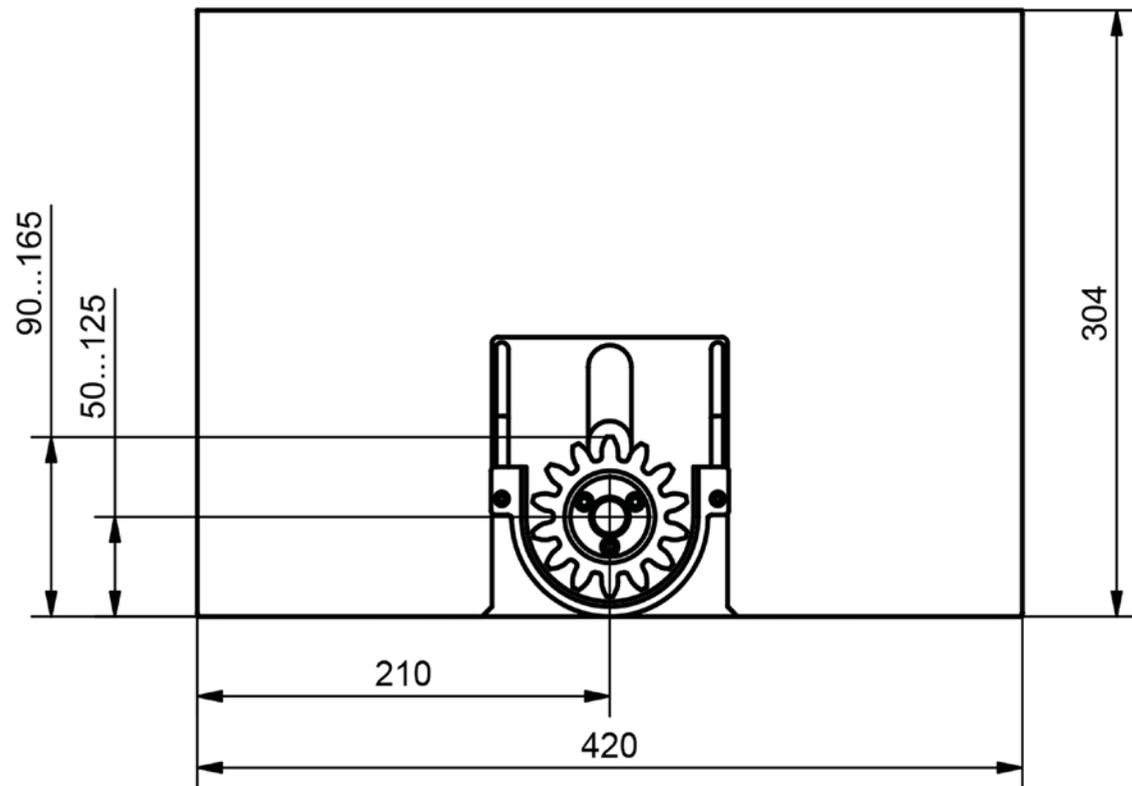
Upon request we deliver the housing in all RAL colours, matching to your gate system.

### Comfortable access and easy release

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The hood can be released from the drive unit via the swivelling lever lock and can be removed without using tools. At the same time, the power transmission is decoupled from the sliding gate.

# NOVA 800



① Dimensions are stated in millimeters. Drawing shows the version NOVA 800. You will find the drawings of the versions NOVA 800-L and NOVA 800-S in our installation and operating instructions.

## Technical data

TYPE	NOVA 800	NOVA 800-L	NOVA 800-S
Max. weight of gate (kg)	800	600	300
Max. length of gate (mm)	14,000	14,000	14,000
Torque value toothed wheel (max.)	29Nm	29Nm	29Nm
Power supply	230V / 50Hz	230V / 50Hz	230V / 50Hz
Motor voltage	24Vdc	24Vdc	24Vdc
Velocity (m/min) approx.	12.6	12.6	16.8
Soft-start, soft-stop	yes	yes	yes
Max. cycles per hour	13	13	18
Limit switches*	not required (optional available)	not required (optional available)	not required (optional available)
Internal damping	yes	yes	yes
Emergency release	yes (axial), lockable with profile cylinder	yes (axial), lockable with profile cylinder	yes (axial), lockable with profile cylinder
Height adjustable toothed wheel	75mm (top edge toothed wheel 90 up to 165mm)	75mm (top edge toothed wheel 90 up to 165mm)	65mm (top edge toothed wheel 114 up to 179mm)
Toothed wheels	module 5 plastic / module 4 plastic / steel	module 5 plastic / module 4 plastic / steel	module 4 steel
Dimensions (w x h x d) mm	420x304x314	420x304x343	420x304x314
Weight (kg) approx.	17	17	18
Controller	MO 46	MO 46	MO 46
Nominal power (VA)	140	140	140
Standard colours / custom colours	stainless steel / RAL-colour (optional)	stainless steel / RAL-colour (optional)	stainless steel / RAL-colour (optional)
IP degree of protection	IP44	IP44	IP44
Temperature range	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

① For serial gates designed in accordance with the EU-norms, the forces allowed at the main edge of the gate can be observed already with the use of a matched passive strip (NOVA 800, NOVA 800-L).

\* Limit switches upon request (cannot be retrofitted to existing devices).

## ORBIT 800 - PILLAR DRIVE INSIDE THE ALUMINIUM POST

FOR GATES UP TO 800kg AND 14,000mm LENGTH





The elegant pillar drive is available in three standard heights. The safety contact profiles or photoelectric barriers can be pre-assembled at factory, upon request. Accessories can be mounted on the top-hat rail or on the optionally available terminal row. From approx. 1,500mm post height an additional service door is optionally available. Clear and orderly cable management, large cable bushings and professional plug-in terminals make the installation quick and easy.

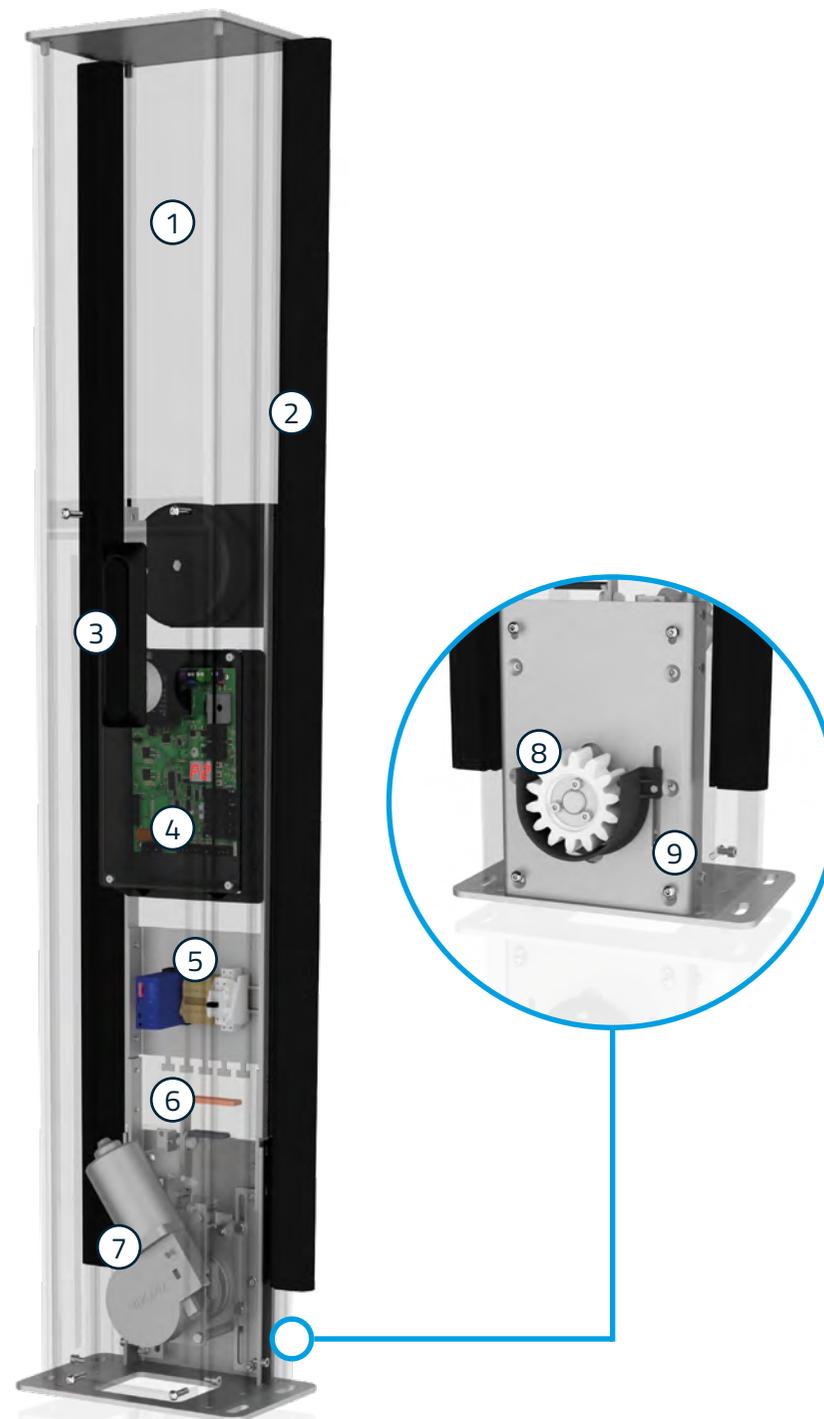
✓ With rail for safety contact profile

✓ Tool-less opening

✓ Easy installation

# ORBIT 800

- ① Elegant aluminum post (natural) with clear wiring and comfortable cable bushing, empty posts also available
- ② Supports for safety contract profiles (optional, alternative trim strip)
- ③ Lockable service door with swivelling lever lock (second service door optional)
- ④ Controller MO 46
- ⑤ Space for additional equipment, terminal row (optional)
- ⑥ Comfortable emergency release in case of power failure
- ⑦ Powerful 24V motor
- ⑧ Toothed wheel module 4 (plastic or steel) or module 5 (plastic)
- ⑨ Wide height adjustment range (up to 75mm), particular deep positioning of the toothed wheel possible



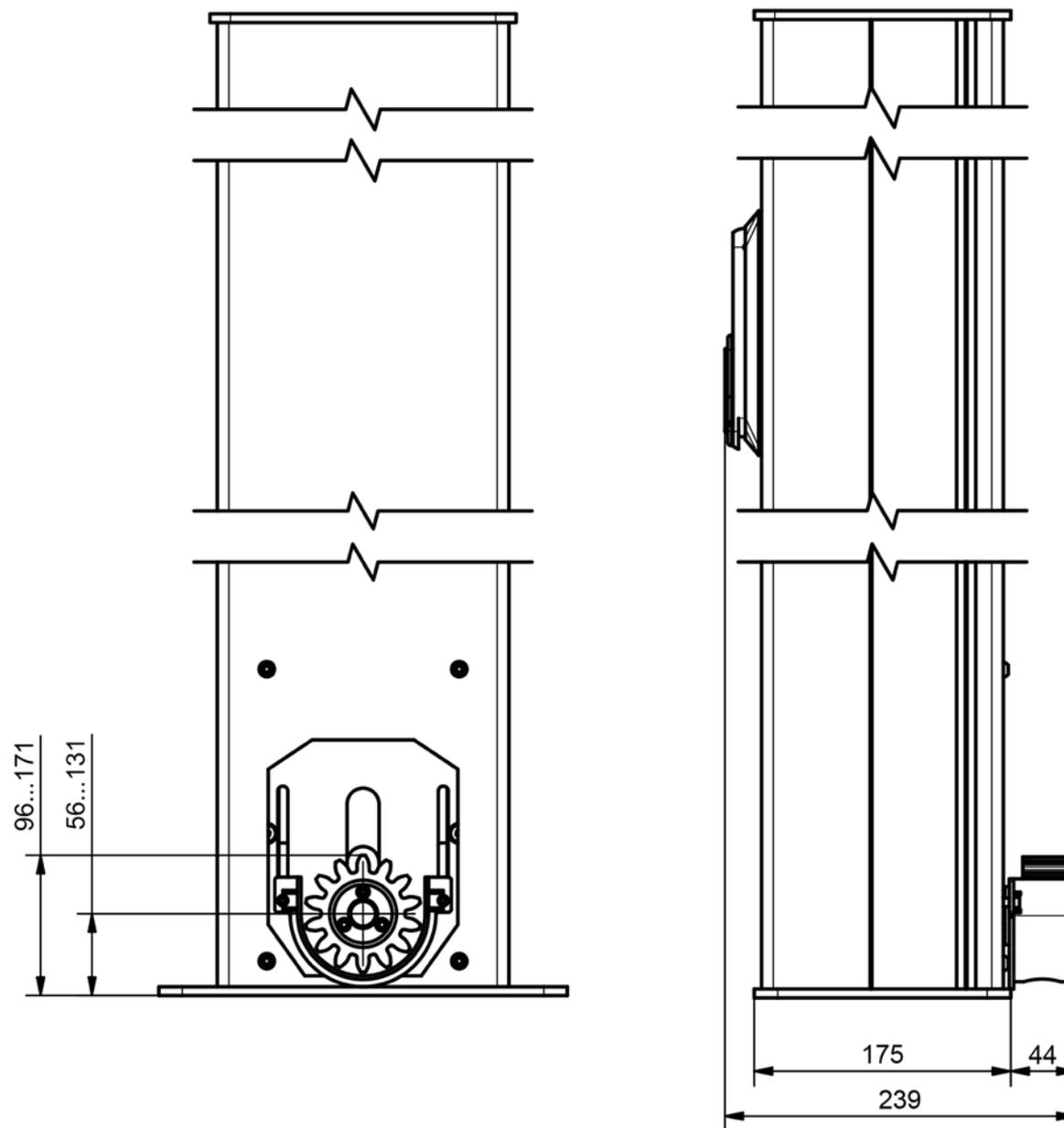


## Variable aluminium post

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The pillar drive ORBIT 800 is available in three standard sizes – intermediate sizes available without extra charge (minimum height 880mm). Upon request we deliver the housing in all RAL colours, matching to your gate system.

# ORBIT 800



① Dimensions are stated in millimeters. Drawing shows the version ORBIT 800. You will find the drawings of the versions ORBIT 800-L and ORBIT 800-S in our installation and operating instructions.

## Technical data

TYPE	ORBIT 800	ORBIT 800-L	ORBIT 800-S
Max. weight of gate (kg)	800	600	300
Max. length of gate (mm)	14,000	14,000	14,000
Torque value toothed wheel (max.)	29Nm	29Nm	29Nm
Power supply	230V / 50Hz	230V / 50Hz	230V / 50Hz
Motor voltage	24Vdc	24Vdc	24Vdc
Velocity (m/min) approx.	12.6	12.6	16.8
Soft-start, soft-stop	yes	yes	yes
Max. cycles per hour	13	13	18
Limit switches*	not required (optional available)	not required (optional available)	not required (optional available)
Internal damping	yes	yes	yes
Emergency release	yes (axial)	yes (axial)	yes (axial)
Height adjustable toothed wheel	75mm (top edge toothed wheel 96 up to 171mm)	75mm (top edge toothed wheel 96 up to 171mm)	65mm (top edge toothed wheel 120 up to 185mm)
Toothed wheels	module 5 plastic / module 4 plastic / steel	module 5 plastic / module 4 plastic / steel	module 4 steel
Dimensions (width x depth) mm	285x219	285x248	285x219
Dimension pillar profile (width x depth) mm	200x165	200x165	200x165
Pillar height (mm)	1,250 / 1,500 / 2,130 / 2,500 or customized	1,250 / 1,500 / 2,130 / 2,500 or customized	1,250 / 1,500 / 2,130 / 2,500 or customized
Weight (kg) approx.	22 / 24 / 29	22 / 24 / 29	23 / 25 / 30
Controller	MO 46	MO 46	MO 46
Nominal power (VA)	140	140	140
Standard colours / custom colours	aluminium natural / RAL-colour (optional)	aluminium natural / RAL-colour (optional)	aluminium natural / RAL-colour (optional)
IP degree of protection	IP44	IP44	IP44
Temperature range	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

**i** For serial gates designed in accordance with the EU-norms, the forces allowed at the main edge of the gate can be observed already with the use of a matched passive strip (ORBIT 800, ORBIT 800-L).

\* Limit switches upon request (cannot be retrofitted to existing devices).

# ORBIT PRO 800 - SLIDE GATE OPENER PORTAL

FOR GATES UP TO 800kg AND 14,000mm LENGTH





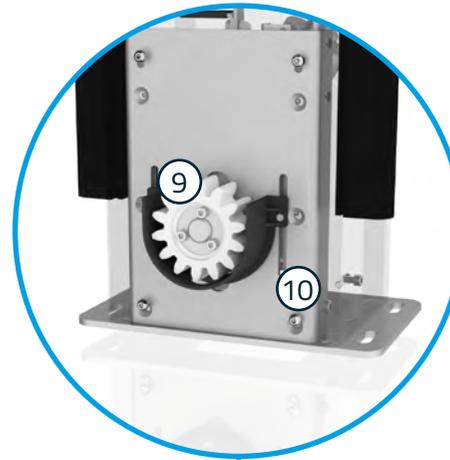
The slide gate opener portal combines a slide gate opener with robust posts, gate guide, safety contact profiles and additional equipment - everything from a single source, fully assembled. With the help of a configurator, the assembly and the composition of all components are created individually according to customer requirements.

✓ Configuration as required

✓ Accessories completely pre-assembled

✓ Everything from a single source

# ORBIT PRO 800



- ① Roller carrier for carrying the guide rollers (Guide rollers are not included in scope of delivery)
- ② Rail for safety contact profiles (optional, alternative trim strip)
- ③ Elegant aluminum post, natural, with clear wiring and comfortable cable bushings, empty posts also available
- ④ Lockable service door with swivelling lever lock (second service door optional)
- ⑤ Controller MO 46
- ⑥ Space for additional equipment, terminal row (optional)
- ⑦ Comfortable emergency release in case of power failure
- ⑧ Powerful 24V motor
- ⑨ Toothed wheel module 5 (plastic) or module 4 (plastic or steel)
- ⑩ Wide height adjustment range (up to 75mm), particular deep positioning of the toothed wheel possible





## Roller carrier

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Due to the oblong holes in the roller carrier of the ORBIT PRO 800 the position of the door guide rollers can be variable adjusted. The door guide rollers are not included in the scope of delivery. The cover can be removed easily for cable laying. The width between the two posts is selectable between 120mm and 495mm.

# ORBIT PRO 800

## CONFIGURATION ACCORDING TO CUSTOMER DEMANDS



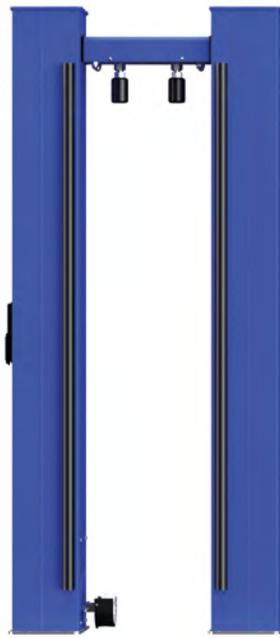
### Variable in height

- ✓ Post height between 970mm and 2,500mm
- ✓ Special sizes on request
- ✓ Variable position of the roller carrier



### Variable in width

- ✓ Width of the roller carrier selectable (between 120mm and 495mm)
- ✓ Positioning of the guide rollers adjustable
- ✓ Long drive shaft (optional)



## Special colours

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- ✓ Aluminium post, natural, as standard
- ✓ Available in different colours in accordance to RAL (optional, painted or powder coated)
- ✓ Also available as construction set in case of on-site powder coating

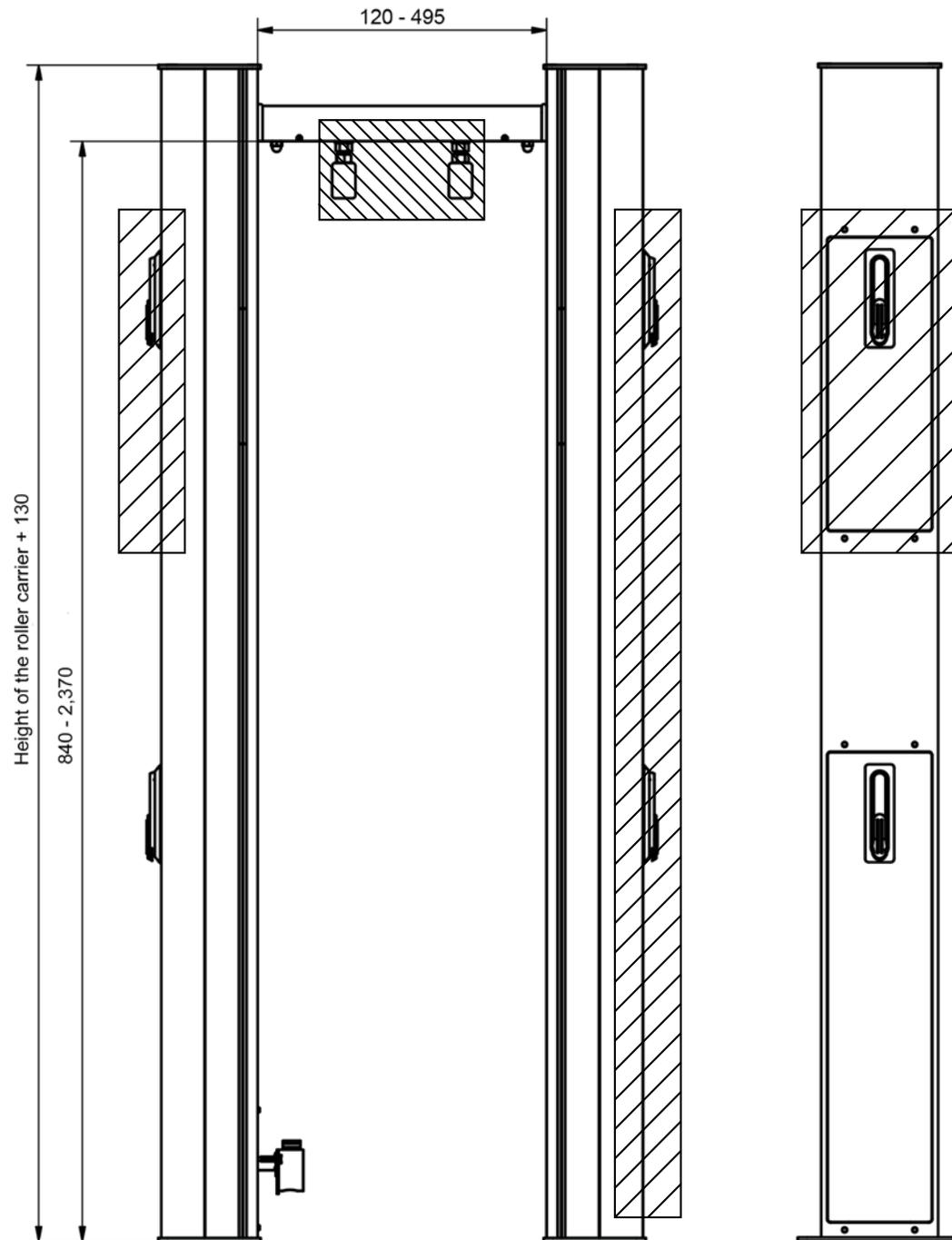


## Special equipment and wall mounting

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- ✓ Wide range of ELKA accessories, pre-assembled
- ✓ Supplied accessories pre-assembled at our factory
- ✓ Wall mounting set, optional available

# ORBIT PRO 800



Dimensions are stated in millimeters.



Optional



Not included in scope of delivery

## Technical data

TYPE	ORBIT PRO 800	ORBIT PRO 800-L	ORBIT PRO 800-S
Max. weight of gate (kg)	800	600	300
Max. length of gate (mm)	14,000	14,000	14,000
Torque value toothed wheel (max.)	29Nm	29Nm	29Nm
Power supply	230V / 50Hz	230V / 50Hz	230V / 50Hz
Motor voltage	24Vdc	24Vdc	24Vdc
Velocity (m/min) approx.	12.6	12.6	16.8
Soft-start, soft-stop	yes	yes	yes
Max. cycles per hour	13	13	18
Limit switches*	not required (optional available)	not required (optional available)	not required (optional available)
Internal damping	yes	yes	yes
Emergency release	yes (axial)	yes (axial)	yes (axial)
Height adjustable toothed wheel	75mm (top edge toothed wheel 96 up to 171mm)	75mm (top edge toothed wheel 96 up to 171mm)	65mm (top edge toothed wheel 120 up to 185mm)
Toothed wheels	module 5 plastic / module 4 plastic / steel	module 5 plastic / module 4 plastic / steel	module 4 steel
Dimensions (width x depth) mm	Pillar profile 200x165 (variable width of the roller carrier)	Pillar profile 200x165 (variable width of the roller carrier)	Pillar profile 200x165 (variable width of the roller carrier)
Pillar height (mm)	1,500 / 2,000 / 2,500 or customized	1,500 / 2,000 / 2,500 or customized	1,500 / 2,000 / 2,500 or customized
Weight (kg) approx.	depending on the design	depending on the design	depending on the design
Controller	MO 46	MO 46	MO 46
Nominal power (VA)	140	140	140
Standard colours / custom colours	aluminium natural / RAL-colour (optional)	aluminium natural / RAL-colour (optional)	aluminium natural / RAL-colour (optional)
IP degree of protection	IP44	IP44	IP44
Temperature range	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

**i** For serial gates designed in accordance with the EU-norms, the forces allowed at the main edge of the gate can be observed already with the use of a matched passive strip (ORBIT PRO 800, ORBIT PRO 800-L).

\* Limit switches upon request (cannot be retrofitted to existing devices).

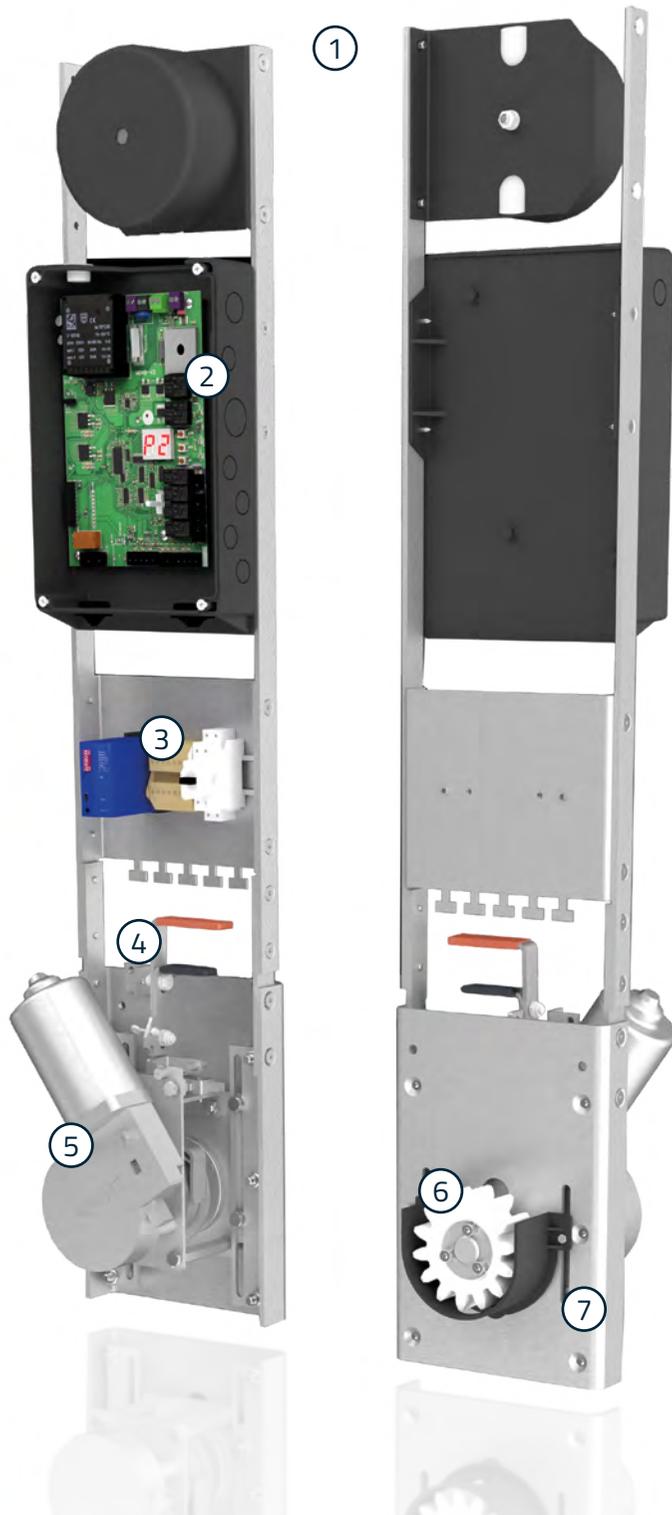
## ORBIT 800A - FOR GATEPOSTS ON-SITE

### FOR GATES UP TO 800kg AND 14,000mm LENGTH

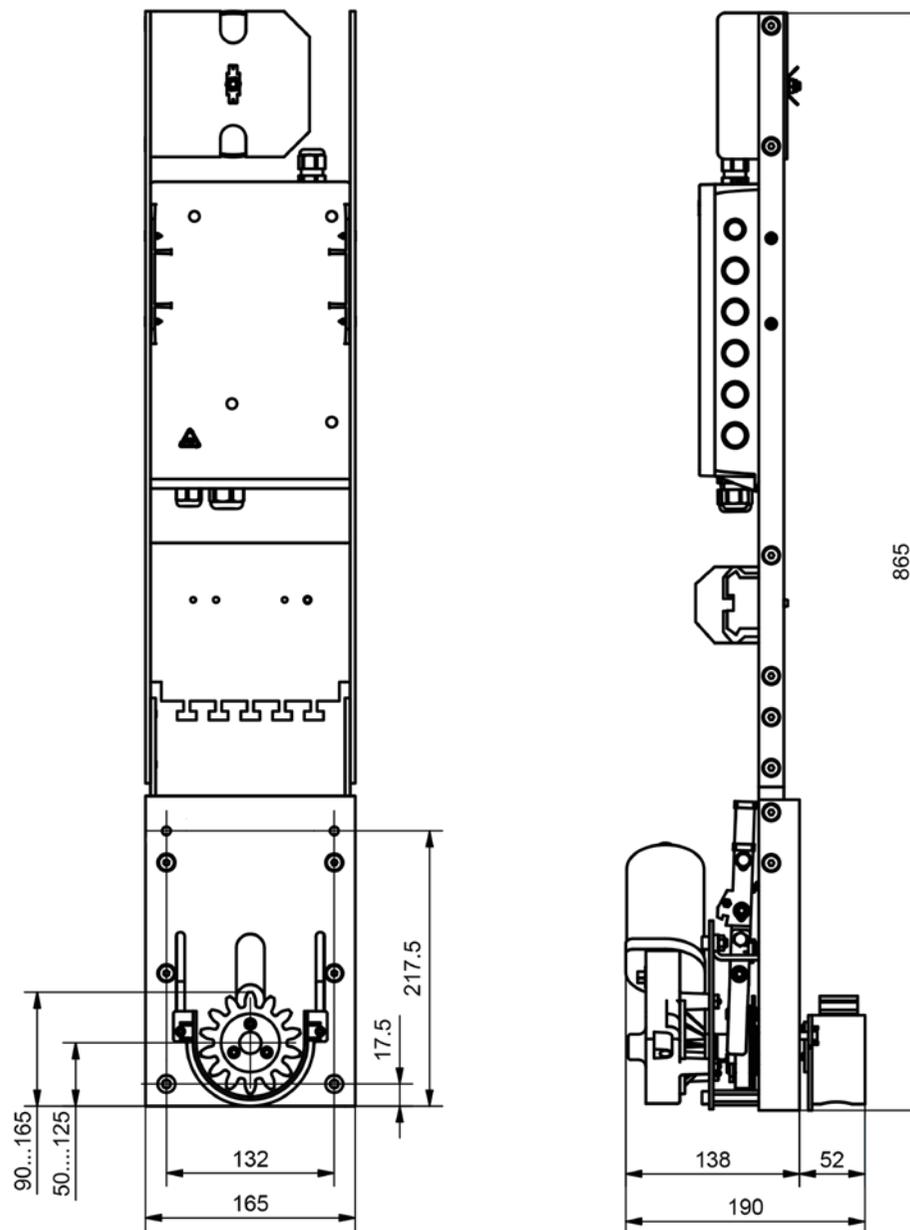
The drive assembly is delivered completely assembled. The drive unit and the controller are pre-wired and provide – in combination with the top-hat rail and the optional terminal row - space for accessories. The console is simply fastened with 4 screws onto the on-site gate post. For serial gates designed in accordance with the EU-norms, ELKA offers support during the certification process.

✓ Drive assembly incl. controller      ✓ Minimal mounting width      ✓ Support during the certification process

- 1 One-piece drive unit, fastening with 4 screws on the on-site gate post
- 2 Inclusive controller MO 46
- 3 Space for additional equipment, terminal row (optional)
- 4 Comfortable emergency release in case of power failure
- 5 Powerful 24V motor
- 6 Toothed wheel: Module 5 (plastic) or module 4 (plastic or steel)
- 7 Wide height adjustment range (up to 75mm), particularly deep position of the toothed wheel possible



# ORBIT 800A



**i** Dimensions are stated in millimeters. Drawing shows the version ORBIT 800A. You will find the drawings of the versions ORBIT 800A-L and ORBIT 800A-S in our installation and operating instructions.

## Technical data

TYPE	ORBIT 800A	ORBIT 800A - L	ORBIT 800A - S
Max. weight of gate (kg)	800	600	300
Max. length of gate (mm)	14,000	14,000	14,000
Torque value toothed wheel (max.)	29Nm	29Nm	29Nm
Power supply	230V / 50Hz	230V / 50Hz	230V / 50Hz
Motor voltage	24Vdc	24Vdc	24Vdc
Velocity (m/min) approx.	12.6	12.6	16.8
Soft-start, soft-stop	yes	yes	yes
Max. cycles per hour	13	13	18
Limit switches*	not required (optional available)	not required (optional available)	not required (optional available)
Internal damping	yes	yes	yes
Emergency release	yes (axial)	yes (axial)	yes (axial)
Height adjustable toothed wheel	75mm (top edge toothed wheel 90 up to 165mm)	75mm (top edge toothed wheel 90 up to 165mm)	65mm (top edge toothed wheel 114 up to 179mm)
Toothed wheels	module 5 plastic / module 4 plastic / steel	module 5 plastic / module 4 plastic / steel	module 4 steel
Dimensions (w x h x d) mm	165x865x190	165x865x219	165x865x190
Weight (kg) approx.	11	11	12
Controller	MO 46	MO 46	MO 46
Nominal power (VA)	140	140	140
IP degree of protection	IP20	IP20	IP20
Temperature range	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

 For serial gates designed in accordance with the EU-norms, the forces allowed at the main edge of the gate can be observed already with the use of a matched passive strip (ORBIT 800A, ORBIT 800A-L).

\* Limit switches upon request (cannot be retrofitted to existing devices).

# ACCESSORIES

## TOOTHED WHEELS

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**Module 4, steel**

For drive assembly 800-S

**Module 4, steel**

For drive assembly 800 / 800-L

**Module 4, plastic**

For drive assembly 800 / 800-L

**Module 5, plastic**

For drive assembly 800 / 800-L

## TOOTHED RACKS

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45x30mm



25x20mm



30x12mm



### Module 5, aluminium and plastic

Incl. damping, height adjustable, for screw fixing, for drive assembly 800 / 800-L

### Module 4, plastic

Height adjustable, for screw fixing, for drive assembly 800 / 800-L

### Module 4, galvanized steel

Height adjustable, for screw fixing, for drive assembly 800 / 800-L / 800-S

## SAFETY CONTACT PROFILES

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### Trim-strip

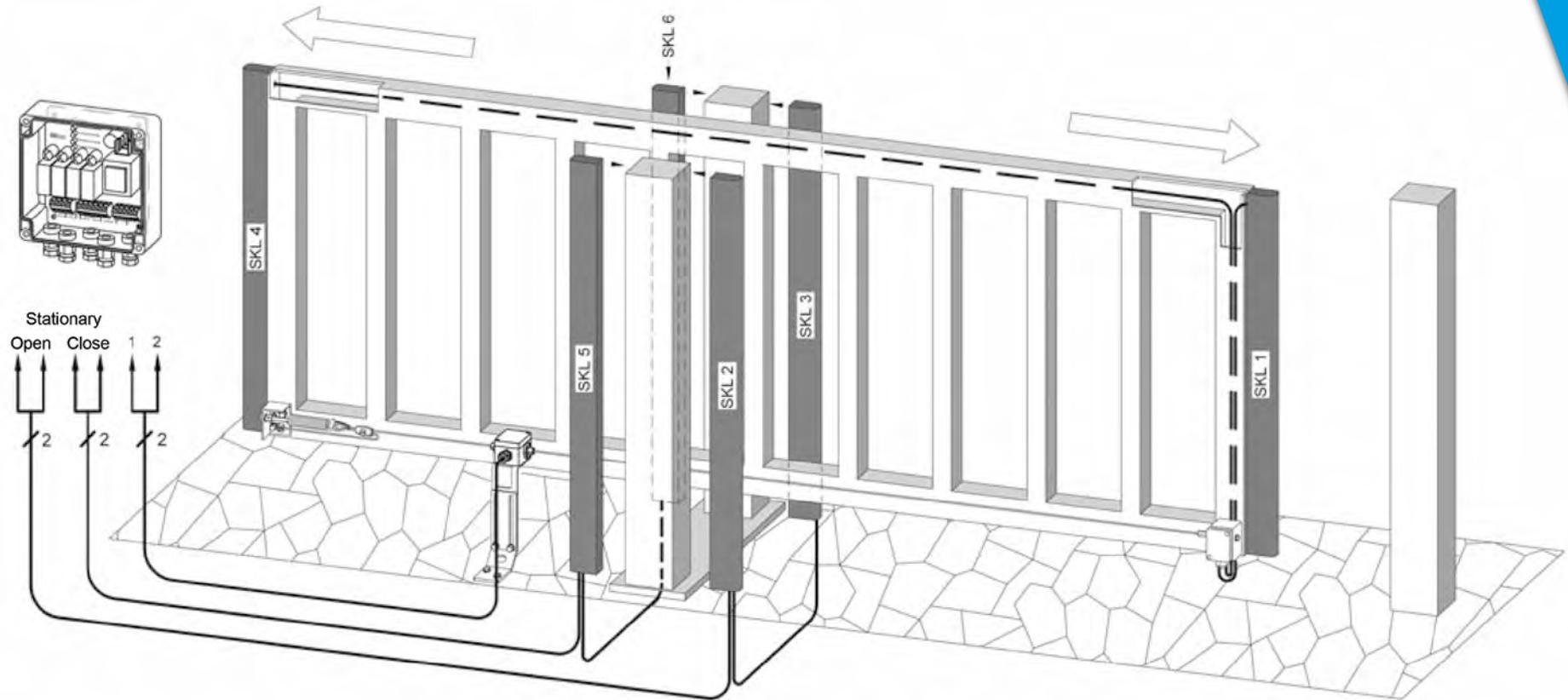
The trim strip can be used when no safety contact profile should be installed, only available for the openers ORBIT 800 and ORBIT PRO 800

### Safety contact profile

Activation at 19mm compression

### Safety contact profile

Activation at 41mm compression



**HS-System**

Current-carrying system, inductive, for safety contact profiles at the main closing edge

# ACCESSORIES

## PHOTOELECTRIC BARRIERS

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### Photoelectric barrier

Flush mounting, 24V, 18m range,  
upon request pre-mounted



### Photoelectric barrier

Surface mounting, 24V, 18m range,  
upon request pre-mounted

## TIMER

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### 7-day-timer

2-channel



### 365-day-timer

2-channel

## LIGHTS

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### Round flashing light

230V, IP67



### LED Flashing light

24V or 230V, IP44



### LED Traffic light red

24V or 230V, IP 65



### LED Traffic light green

24V or 230V, IP 65

# FOR ADDITIONAL ACCESSORIES PLEASE HAVE A LOOK AT OUR PRICE LIST

## ACCESS CONTROL DEVICES

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**Emergency stop**

Flush mounting



**Key switch with emergency stop**

Flush mounting, with emergency stop button



**Key switch**

Flush mounting



**Code switch**

With stainless steel keypad

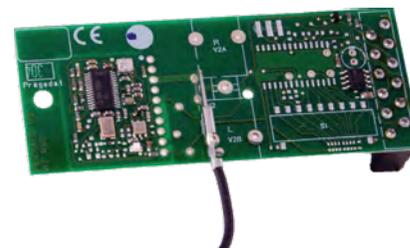
## RADIO REMOTE CONTROL

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**Radio remote control transmitters**

434 MHz / 868 MHz, codable, very good range



**Radio remote control receiver**

Pluggable on the controller



# ELKA

We reserve the right to make technical alterations.