

THE NEW GENERATION

ELKA

*We reserve the right  
to make technical alterations*



# ELKA GATE OPENERS

## PARTNER WITH COMPETENCE

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

Partner with competence - the management of 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

ELKA-Torantriebe GmbH u. Co. Betriebs KG, Dithmarscher Str. 9, 25832 Tönning, Germany

✉ [info@elka.eu](mailto:info@elka.eu)

🌐 [www.elka.eu](http://www.elka.eu)

☎ +49 (0) 4861-9690-0

📠 +49 (0) 4861-9690-90



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### **ROLLER** **Any opening angle**

For gate up to 4,000mm and 250kg per wing



### **TERRA-S** **Underfloor gate opener**

For gate up to 3,500mm and 500kg per wing

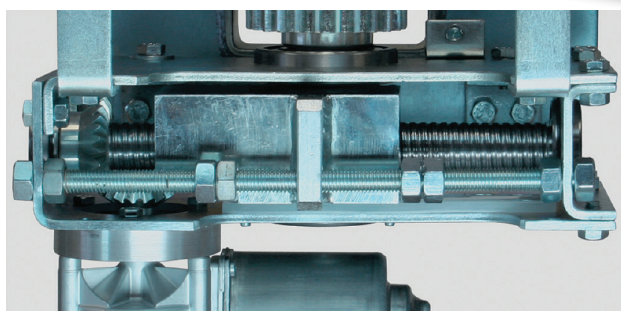


### **KOMET** **Linear-rack gate openers**

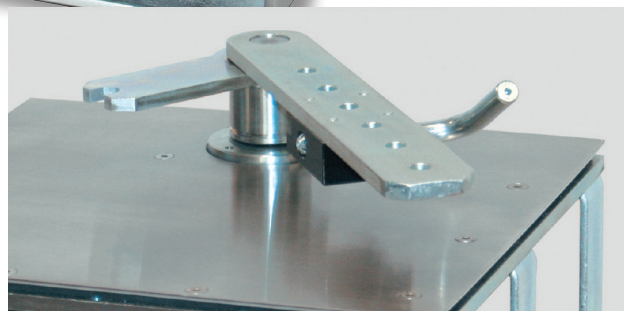
For gate up to 6,000mm and 500kg per wing

# TERRA - S

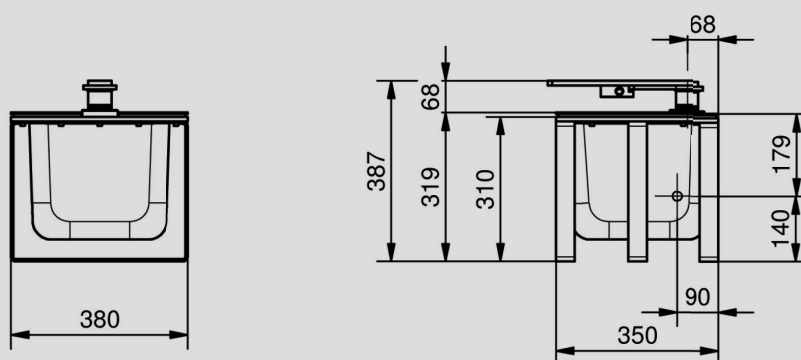
FOR GATES UP TO 3,500MM LENGTH PER WING



*Recirculating ballscrew with internal stops*



*Emergency release*



Dimensions

✓ **Innovative**

The TERRA-S is a unique underfloor gate opener, which convinces due to its solid workmanship

The accurately adjusted recirculating ballscrew ensures an even pass of motion of the gate

The easily adjustable internal stops permit the use without external stops for GATE OPEN

For gates with up to 2,500mm length per wing, even for GATE CLOSED external stops are not required

✓ **Durable**

The stable frame structure transfer the weight of the gate and the torsional force into the foundation

The support plate of the mechanics is connected with the plastic bowl by the manufacturer. The housing is hermetically sealed through the grinded cover plate made of stainless steel. For adjusting purposes a comfortable opening is provided.

✓ **Flexible**

The TERRA-S is suitable for the varied installation situations.

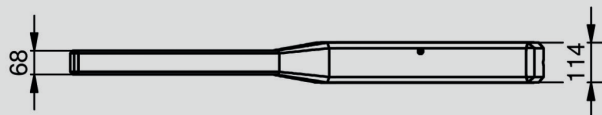
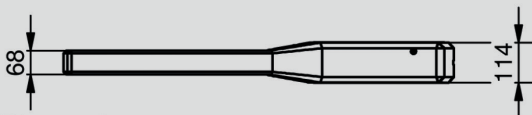
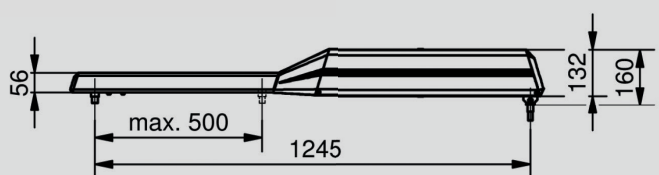
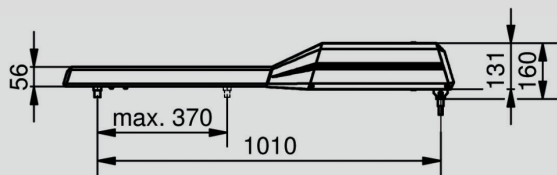
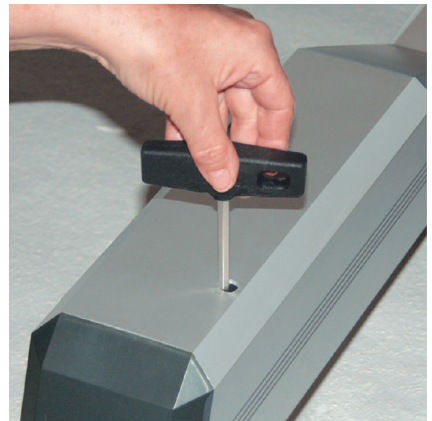
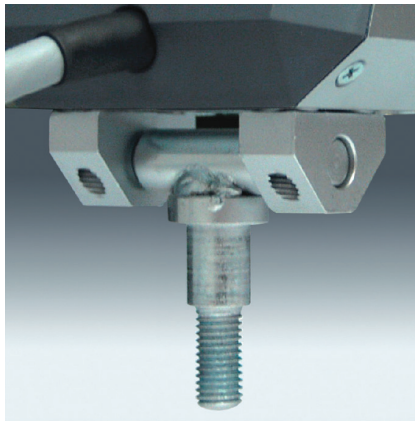
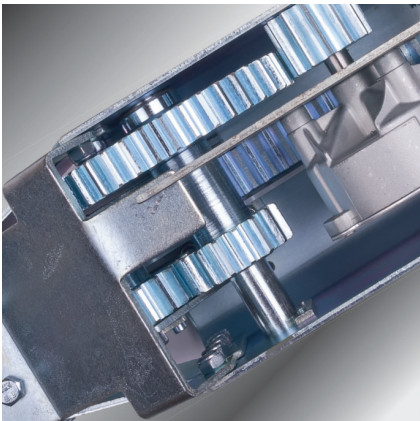
✓ **Professional**

The controller MO 36 with its future-orientated logic meets nearly all possible customer requirements.

Technical data	TERRA-S 250 for gates with one wing	TERRA-S 350 for gate with one wing
	TERRA-S 252 for gates with two wings	TERRA-S 352 for gates with two wings
Max. length of wing with max 50% wind resistance	2,500 mm	3,500 mm
Max. surface area of wing with max 50% wind resistance	6,25 sqm	8,75 sqm
Max. weight of wing	500kg	500kg
Requires electromagnetic bolt/ motor lock	no	yes
Emergency release, opener installed under the gate	from inside and outside	
Emergency release, opener installed next to the gate	from inside	
Running times depending on the opening angle and the speed level (1-8) selected on the controller e.g. opening angle 90°, selected level 8 (fasted)	approx 12s	approx 12s
Max opening angle	up to 180°, depending on the mounting dimensions	
Internal stops	yes	yes
External stops required at GATE OPEN position*	no	no
External stops required at GATE CLOSED position*	recommended	yes
Power supply	230V/50HZ	230V/50Hz
Motor voltage	24 V dc	24V dc
Duty cycle	50%	50%

**KOMET**

FOR GATES UP TO 6,000MM LENGTH PER WING



Dimensions

✓ **Elegant**

The KOMET is a robust gate opener with linear-rack-technology in an elegant housing made of anodized aluminium and impact-resistant ABS

✓ **Innovative**

The linear-rack and the toothed wheels made of galvanized steel make the difference. They ensure a reliable and exemplary silent operation. The emergency release from top and bottom are another feature. A convincing technology

✓ **Durable**

The stable substructure withstands vertical compressive up to 150kg

✓ **Flexible**

The KOMET is suitable for the varied installation situations. One reason is the swivelling connection for rising terrain.

✓ **Professional**

The controller MO 36 with its future-orientated logic meets nearly all possible customer requirements

Technical data	KOMET 200 for gates with one wing	KOMET 280 for gate with one wing	KOMET 400 for gate with one wing	KOMET 600 for gate with one wing
	KOMET 202 for gates with two wings	KOMET 282 for gates with two wings	KOMET 402 for gates with two wings	KOMET 602 for gates with two wings
Max. length of wing with max 50% wind resistance	2,000 mm	2,800 mm	4,000 mm	6,000 mm
Max. surface area of wing with max 50% wind resistance	5.0 sqm	7.0 sqm	10.0 sqm	12.0 sqm
Max. weight of wing	200kg	300kg	400kg	500kg
Max stroke	370mm	370mm	370mm	370mm
Requires electromagnetic bolt/motor lock	no	no	yes	yes
Emergency release at the gate opener	from top and bottom			
Running time: depending on the stroke and the speed level (1-8) selected on the controller e.g. A) utilised stroke 280mm, level 8 (fastest) e.g. B) utilised stroke 350mm, level 8 (fastest) e.g. C) utilised stroke 500mm, level 8 (fastest)	approx 12s	approx 12s	approx 12s	
	approx 16s	approx 16s	approx 16s	
				approx 24s
Max opening angle	up to 120o, depending on the mounting dimensions			
Internal stops	no	yes	no	no
External stops required at GATE OPEN position*	yes	no	yes	yes
External stops required at GATE CLOSED position*	yes	no	yes	yes
Power supply	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Motor voltage	24V dc	24V dc	24V dc	24V dc
Duty cycle	50%	50%	50%	50%

## ROLLER

FOR ANY OPENING ANGLE  
FOR GATES UP TO 4,000MM LENGTH PER WING





✓ **Simply different**

Within 15 years of permanent enhancement the ROLLER matured into a high-quality swing gate opener with many advantages. Just install it at the gate leaf using four screws. The silent rolling technology is convincing. An inexpensive solution for privately used gates.

✓ **Innovative**

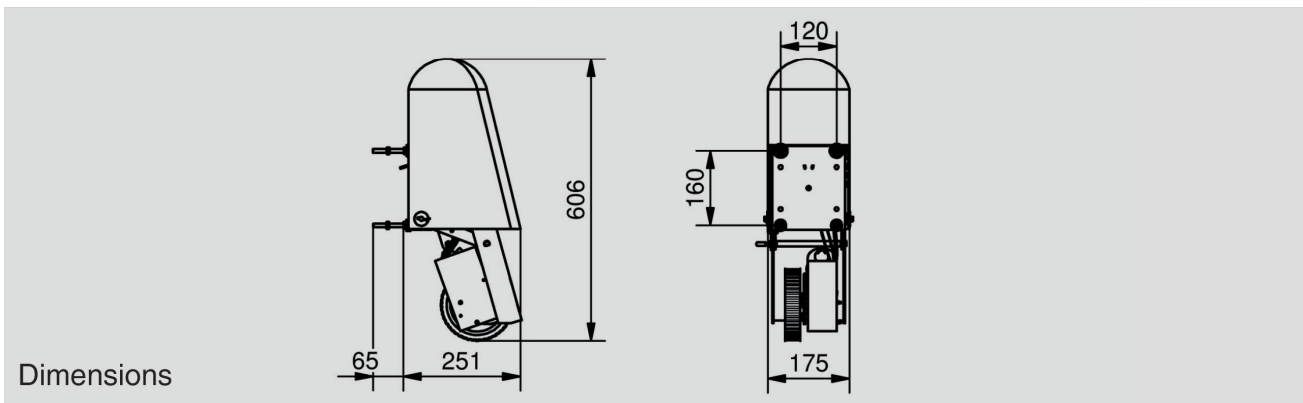
The ROLLER overcomes bumps and rising terrain up to 180mm. The wheel is pressed to the ground by spring force, so that a maximum of adhesion is ensured

✓ **Flexible**

The ROLLER is suitable for the varied installation situations and for any required opening angle.

✓ **Professional**

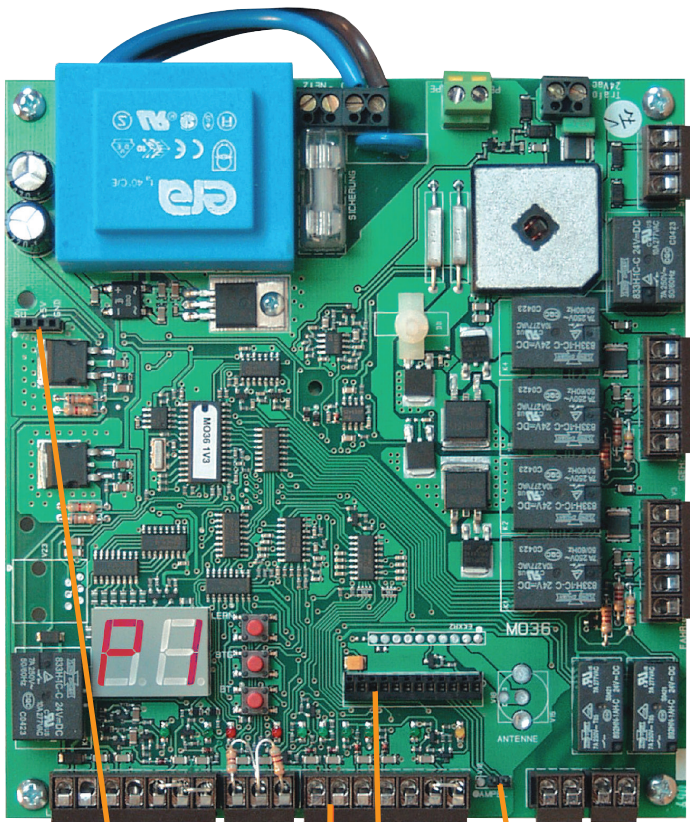
The controller MO 36 with its future-orientated logic meets nearly all possible customer requirements.



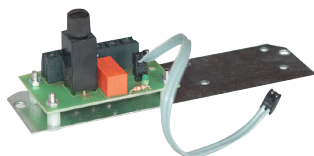
<p><b>Technical data</b></p>	<p><b>ROLLER 1</b> for gates with one wing <b>ROLLER 2</b> for gates with two wings</p>
Max. length of wing with max 50% wind resistance	4,000 mm
Max. surface area of wing with max 50% wind resistance	6,0 sqm
Max. weight of wing	250kg
Requires electromagnetic bolt/ motor lock	recommended
Emergency release	at the gate opener to engage
Running times depending on the opening angle and the speed level (1-5) selected on the controller e.g. opening angle 90°, wing length 2,500mm, level 5 (fastest)	approx 11s
Max opening angle	any
External stops required at GATE OPEN position*	yes
External stops required at GATE CLOSED position*	yes
Power supply	230V/50HZ
Motor voltage	24V dc
Duty cycle	39%

# CONTROLLER MO 36

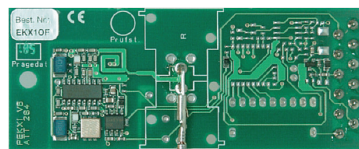
FOR ALL ELKA SWING GATE OPENERS 24V



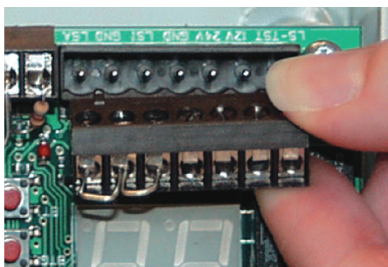
Socket for optional ELKA 7-day-timer module



Connection for optional traffic light module



Socket for optional ELKA radio remote control receiver 434MHz Channel 1 for complete opening, Channel 2 for partial opening



Plug-terminals for easy installation

## Obvious details

- ✓ For swing gate openers with 1 or 2 wings
- ✓ Power supply 230V/50Hz
- ✓ Motor voltage 24V dc
- ✓ Soft-start and soft-stop, stageless
- ✓ One button or three button input
- ✓ Speed selectable in 8 steps for OPEN and CLOSE separately for each gate wing
- ✓ Force adjustable for OPEN and CLOSE separately for each wing
- ✓ Stop and reversing for a short distance on contact with an obstacle
- ✓ Pedestrian opening function selectable
- ✓ Automatic closure, programmable (1-299s)
- ✓ Pre warming prior to opening and closing separately selectable (4s)
- ✓ Warming light connection, potential free, max. 230V/60W
- ✓ Traffic light connection (green), potential free, max. 230V/60W
- ✓ LED-display for motor voltage, safety contact profiles, photo-cells and all command inputs

## Professional details

- ✓ Two separate photo-cell systems for inside and outside installation with patented testing function for up to 6 photo-cells each. Lockage function by photo-cells, selectable.
- ✓ Safety contact profile detection for OPEN and CLOSE separately, 8.2kOhm
- ✓ Multi-functional relay for third radio remote control channel, e.g. for exterior lighting
- ✓ Pressure relief of electromagnetic bolt - deactivation possible
- ✓ Gust suppression selectable (1 to 9s - only with safety devices)
- ✓ Emergency mode by button on the controller in case of failure of a safety device, after approx. 10s via dead man's function

# ACCESSORIES

## Photoelectric Barriers



### Photoelectric barrier

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



### Photoelectric barrier

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

## Timer



### 7-day-timer

2-channel



### 365-day-timer

2-channel

## Lights



### 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

## Access control devices



### Emergency stop

Flush mounting



### Key switch with emergency stop

Flush mounting, with emergency stop button

## Radio remote control



### Radio remote control transmitters

434 MHz/868 MHz, codable, very good range



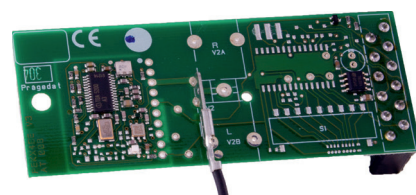
### Key switch

Flush mounting



### Code switch

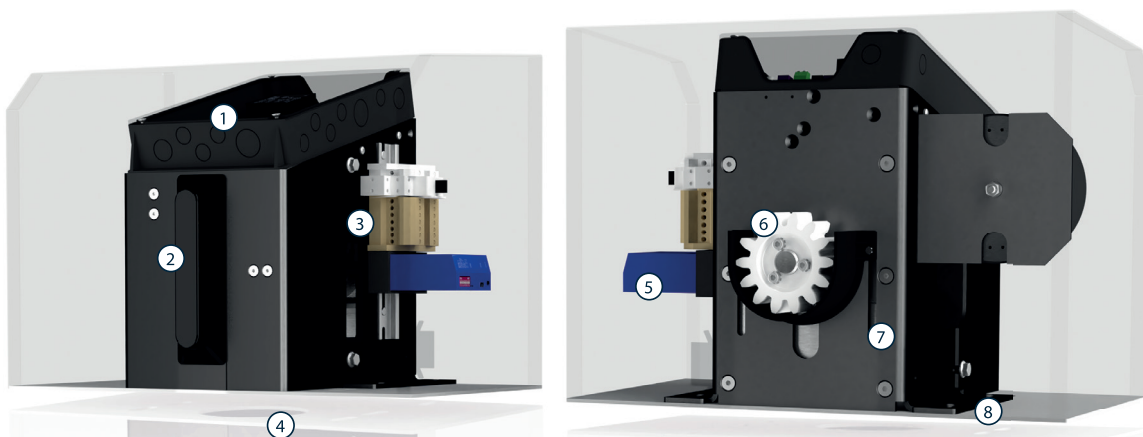
With stainless steel keypad



### Radio remote control receiver

Pluggable on the controller

# 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

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

## Comfortable access and easy release

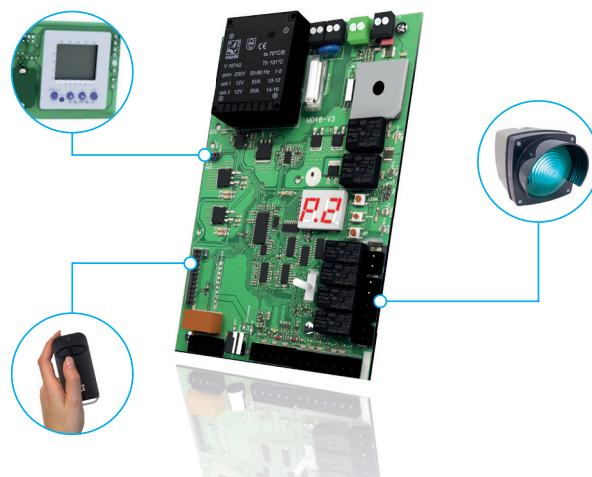
The hood can be released from the drive unit via the swivelling lever lock and can be removed without using tools. At the same time, the power transmission is decoupled from the sliding gate.

## CONTROLLER MO46

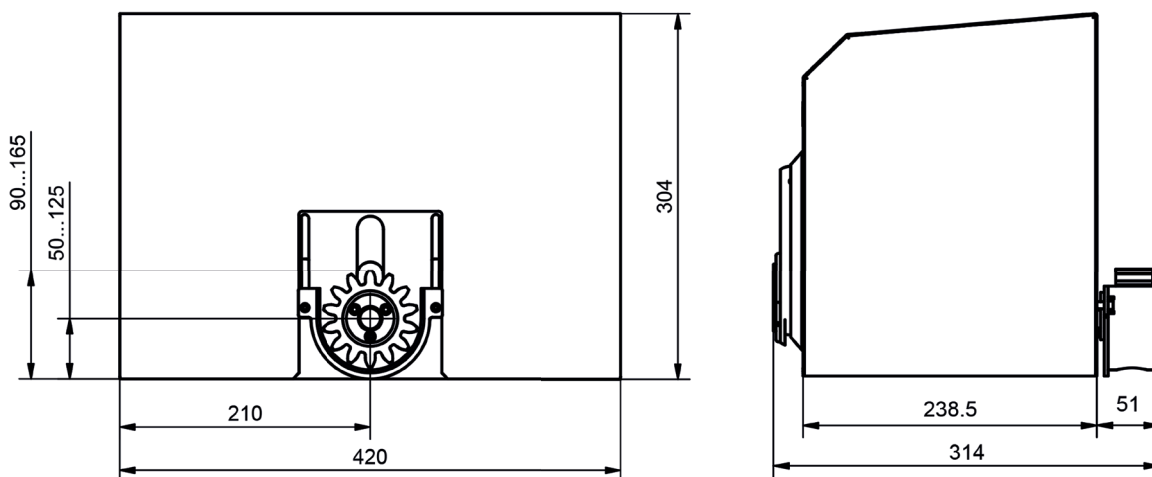
### FOR ALL SLIDE GATE OPENERS 24V

#### One controller unit for all 24V openers

- ✓ **Perfect running performance:**  
Electronic speed control, 50ft-start and 50ft-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



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.

## EST 1204

### ✓ Quality

The housing are made of steel and are galvanized and powder coated afterwards

### ✓ Safety

Immediate stop via electronic brake and reversing for a short distance take place when a safety device is activated. For compliance with the safety regulations ELKA supplies the suitable safety contact profiles and photoelectric barriers.

For serial gates designed in accordance with the EU-norms, ELKA offers support during the certification process. The perfect opportunity for gate manufacturers to offer a certified system

### ✓ Flexible:

All gate openers of this series are height adjustable up to 30mm. Zinc coated rack, module 4, height adjustable, incl, spacers to be screwed on the gate.

### ✓ Alternatively

Toothed wheel, module 6, zinc coated. Rack, module 6, zinc coated, to be welded on the gate

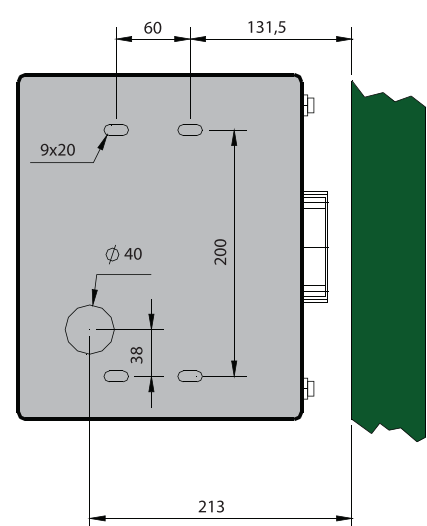
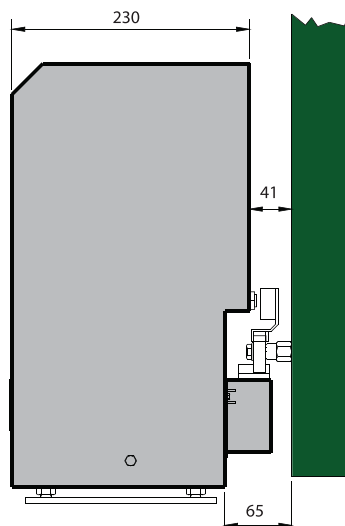
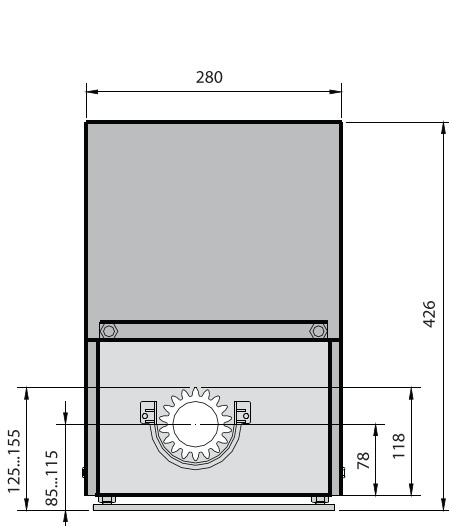


View from the back

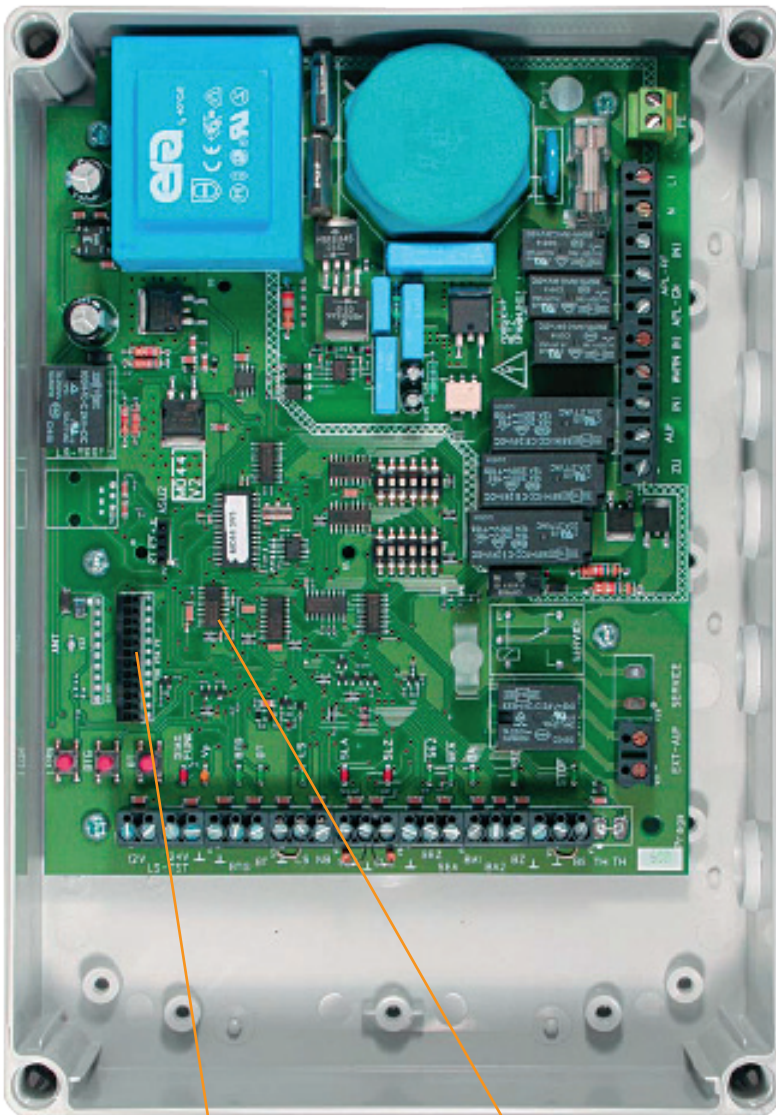


View from the side

View from above



# CONTROLLER MO 44-2



## Obvious details

- ✓ Power supply 230V/50Hz
- ✓ Running distance limitation by magnetic limit switches
- ✓ Partial opening learnable
- ✓ Pre-warning time 4s prior to opening and closing separately selectable
- ✓ Automatic closure for complete an partial opening separately adjustable (0-300s)
- ✓ One button input with serial switching or three button input
- ✓ Green traffic light connection, potential free, max.230V/60W
- ✓ Red traffic light connection, with sleep-mode, potential free, max.230V/60W
- ✓ Warning light connection, potential free, max.230V/60W
- ✓ LED-display for motor voltage, safety contacts profiles, photo-cells, and command inputs
- ✓ Redundant stop contact
- ✓ Dead man's mode selectable



Socket for optional ELKA radio remote control receiver 434MHz, Channel 1 for complete opening Channel 2 for Partial opening



Socket for optional ELKA 7-day-timer module

## Professional details

- ✓ Photo-cell connection for 6 photo-cells with patented testing function
- ✓ Safety contact profile detection for OPEN and CLOSE separately 8.2kOhm
- ✓ Emergency mode by button on the controller in case of failure of a safety device (after approx. 10s via dead man's function)
- ✓ Day/night-operation selectable
- ✓ Tandem operation

## TECHNICAL DATA

TYPE	NOVA 800	EST 1204
Max. weight of gate (kg)	800	1,200
Max. length of gate (mm)	14,000	12,000
Power supply	230V/50Hz	230V/50Hz
Motor voltage	24Vdc	230Vac
Velocity (m/min) approx	12.6	10.8
Duty cycle	50%	75%
Limit switches*	not required (optional available)	2 magnetic
Emergency release	yes (axial), lockable with profile cylinder	yes
Height adjustable toothed wheel	75mm (top edge toothed wheel 90 up to 165mm)	30mm
Toothed wheels	module 5 plastic/ module 4 plastic/steel	module4 / Module 6 optional
Dimensions (W x H x D) mm	420x304x314	426x230x280
Weight (kg) approx	17	28
Controller	MO 46	MO 44-2
IP degree of protection	IP 44	IP 44
Temperature range	-20°C to +50°C	-20°C to +50°C



## ELKA BARRIERS

SERIES PARKING  
& TOLL STATION BARRIER - HIGH SPEED



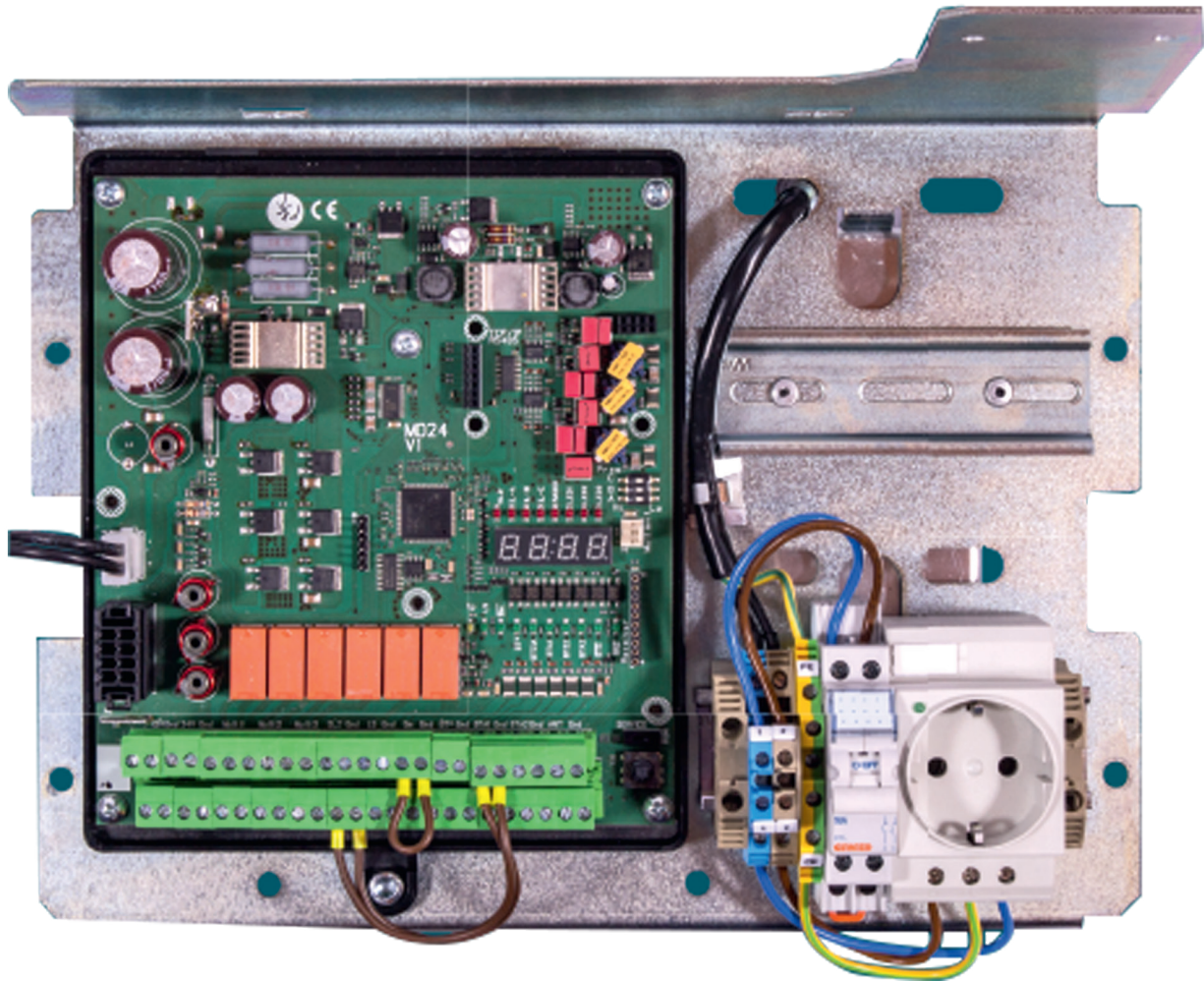
**0.3s running time**

**Soft protect boom**

**Made in Germany**

## PURE INTELLIGENCE

### THE CONTROLLER MO 24



In the 21st. century the best mechanics is only as good as the electronic intelligent. The controller MO 24 features everything you always wanted from a toll station barrier

#### Basic features

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- ✓ The same controller for all barriers
- ✓ Three Icop detectors
- ✓ Rotation speed control, electronic, for perfect running performance
- ✓ End position detection without limit switches
- ✓ Opening angle adjustable in 50 steps, starting with 55°
- ✓ Six multi-functional relays, potential-free, max. 24V/1A

#### Options

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- ✓ Module automatic opening in case of power failure
- ✓ Module radio remote control receiver
- ✓ Module TCP/IP or RS 485 for network operation
- ✓ Easy control "Configurator" to configure the barrier via Windows-PC
- ✓ Easy control "Operator" to control and monitor the barrier via Windows-PC

## TECHNICAL DATA

MODEL	T 1500	P 2500	P 3000	P 3500	P 4000	P 5000
Barrier controller	MO 24					
Boom length (mm)	1,500	2,500	3,000	3,500	4,000	5,000
Effective boom length (mm)	1,260	2,280	2,780	3,280	3,780	4,780
Running time, selectable, approx. (s)	0.3	0.9/1.3/2.5	1.3/1.8/2.5	1.8/2.5/3.8	2.8/3.8/4.5	3.8/4.5/5.5
Duty cycle	100%					
Housing L/W/H (mm)	360 x 300 x 1,100					
Boom connector	Left / right usable					
Boom dimensions H/W	100 x 25			100 x 50		
Round boom	Optional Ø 60mm				No	
Temperature range	-20°C to +50°C					
IP degree of protection	IP 54					
Supply voltage	88V - 264V, 47Hz - 63Hz					
Power consumption max. (W)	175	180/55/45	85/80/70	80/60/65	75/85/70	195/165/175
Barrier weight, approx. (kg)	57	57	58	58	59	60
Boom weight, approx (kg)	1	3.8	4.5	5.0	5.8	10.0
Power reversal	Selectable					
Swinging support or fixed support	No			Optional		Mandatory
Articulation kit	Optional				No	
Standard colours	Hood RAL 5012 (blue), bottom part RAL 9010 (white), custom colours optional					



We reserve the right to make technical alterations