

Installation and Operating Instructions

Electromagnetic Bolt E 205 Accessories



Translation of original operating manual

D-ID: V2_0 – 03.13

ELKA-Torantriebe GmbH u. Co. Betriebs KG

Dithmarscher Str. 9

25832 Tönning

Germany

Phone:

+49-(0) 48 61 - 96 90-0

Fax:

+49-(0) 48 61 - 96 90-90

E-mail:

info@ELKA-Torantriebe.de

Internet:

www.ELKA-Torantriebe.de

Index of contents

1	Preface	2
1.1	General notes	2
1.2	Copyright	3
1.3	Information regarding installation instruction	3
2	Electromagnetic Bolt E 205	4
2.1	Usage	4
2.2	Technical data	4
2.3	Electrical connection	4
2.4	Installation measurements	8
2.5	Emergency release during power failure	9

1 Preface

1.1 General notes

These operating instructions must be available on site at all times. It should be read thoroughly by all persons who use, or service the appliances. Improper usage or servicing or ignoring the operating instructions can be a source of danger for persons, or result in material damage. If the meaning of any part of these instructions isn't clear, then please contact ELKA-Torantriebe GmbH u. Co. Betriebs KG before you use the appliance.

This applies to all setup procedures, fault finding, disposal of material, care and servicing of the appliance. The accident prevention regulations and applicable technical regulations (e.g. safety or electrical) and environment protection regulations of the country in which the appliance is used also apply. All repairs on the appliances must be carried out by qualified persons. ELKA-Torantriebe GmbH u. Co. Betriebs KG accepts no liability for damage which is caused by using the appliance for purposes other than those for which it is built.

ELKA-Torantriebe GmbH u. Co. Betriebs KG cannot recognise every possible source of danger in advance. If the appliance is used other than in the recommended manner, the user must ascertain that no danger for himself or others will result from this use. He should also ascertain that the planned use will have no detrimental effect on the appliance itself. The appliance should only be used when all safety equipment is available and in working order. All faults which could be a source of danger to the user or to third persons must be eliminated immediately. All warning and safety notices on the appliances must be kept legible.

All electrical periphery equipment which is connected to the appliance must have a CE Mark, which ensures that it conforms to the relevant EEC regulations. Neither mechanical nor electrical alterations to the appliance, without explicit agreement of the manufacturer, are allowed. All alterations or extensions to the appliance must be carried out with parts which ELKA-Torantriebe GmbH u. Co. Betriebs KG have defined as suitable for such alterations, and be carried out by qualified personnel. Please note that with any alteration of the product, no matter whether mechanical or electrical, the warranty expires and the conformity is revoked. Only the use of ELKA accessories and original ELKA spare parts is allowed. In case of any contravention ELKA disclaims liability of any kind.



INFORMATION!

The operation of the system within CEN countries must also be conformant with the European safety-relevant directives and standards.

We reserve the right to make technical improvements without prior notice.

1.1.1 Symbol explanation

Remarks regarding the safety of persons and the gate opener itself are marked by special symbols. These remarks have to be absolutely observed in order to avoid accidents and material damage.

**DANGER!**

...points to an imminent dangerous situation, which can cause death or serious injuries if it is not avoided.

**WARNING!**

...points to a potentially dangerous situation, which can cause death or serious injuries if it is not avoided.

**ATTENTION!**

...points to a potentially dangerous situation, which can cause minor or slight injuries if it is not avoided.

**ATTENTION!**

...points to a potentially dangerous situation, which can cause property damage if it is not avoided.

**REMARK!**

Important notice for installation or functioning.

1.2 Copyright

The operating manual and the contained text, drawings, pictures, and other depictions are protected by copyright. Reproduction of any kind – even in extracts – as well as the utilization and/or communication of the content without written release certificate are prohibited. Violators will be held liable for damages. We reserve the right to make further claims.

1.3 Information regarding installation instruction

This document is to be used as installation instruction for partly completed machinery (according to machinery directive 2006/42/EG, article 13, (2)).

2 Electromagnetic Bolt E 205

2.1 Usage

Electromagnetic bolt E 205 to lock swing gates. The bolt locks either downwards or to the side.



When using the electromagnetic bolt sideways, it must be protected from moisture by a cover (on site).

2.2 Technical data

Power supply	24Vac (Alternating current)
Maximum current	approx. 6.0A during stroke movement approx. 1.0A during stop position
Degree of protection	IP43
Emergency release	With key (cylinder lock)
Measurements (W x H x L)	94 x 295 x 58mm
Stroke	50mm

Table 1

2.3 Electrical connection

The cross section of the cable to the bolt depends on the distance between the controller and the electromagnetic bolt:

up to 50m: 1.5mm²



Please note that with an increasing distance between controller and swing gate the range of the radio remote control decreases, since the radio remote control receiver is plugged onto the controller.

2.3.1 Electrical connection MO 36 when using without warning light

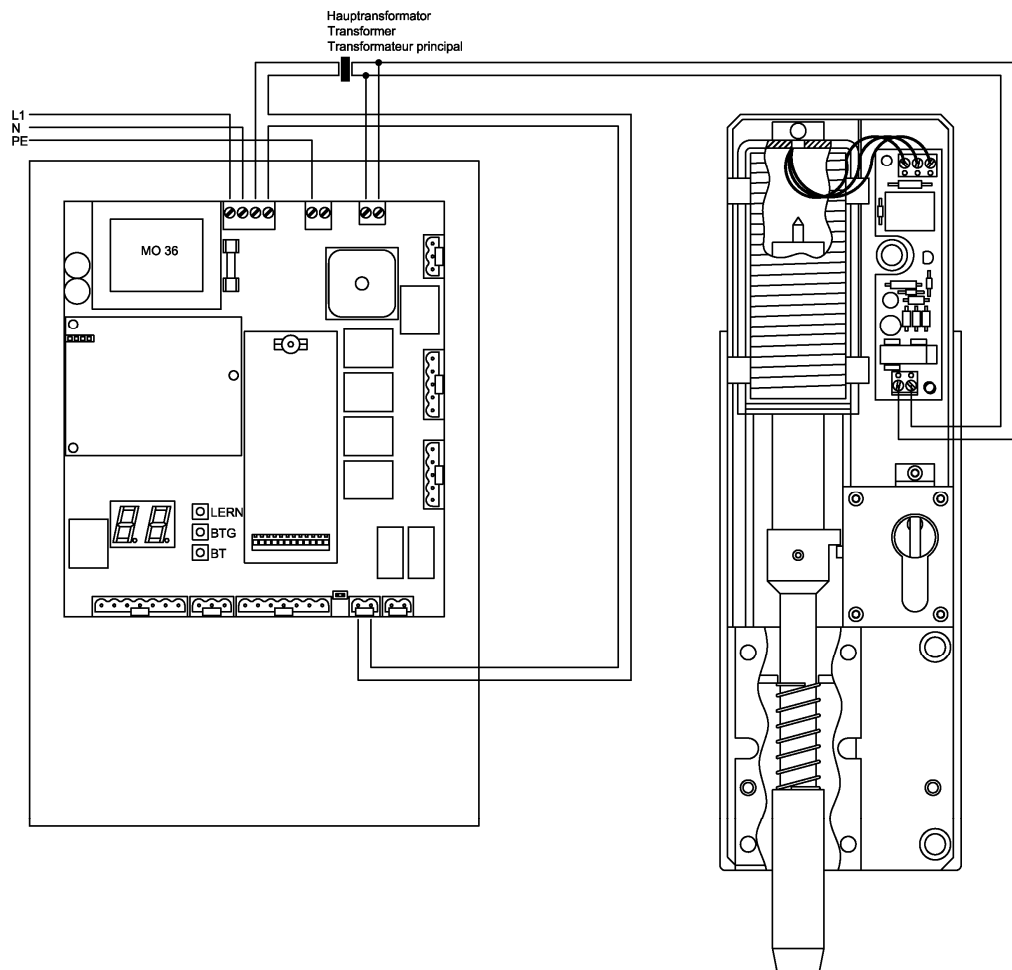


WARNING!

Danger by electrical voltage!

Danger of electric shock.

- The device should be connected to the supply voltage (230Vac) by a qualified electrician only.



Drawing 1

Directly connectable through the warning light connection and the main transformer of the controller MO 36.

Connect the electromagnetic bolt E 205 to the transformer clamp of the main board (secondary winding of the toroid transformer). The supply of the toroid transformer is switched over one conductor of the warning light connection.



Please set the pre-warning time for both directions to 4 seconds (learning sequence P8).

2.3.2 Electrical connection MO 36 when using with warning light (230Vac)

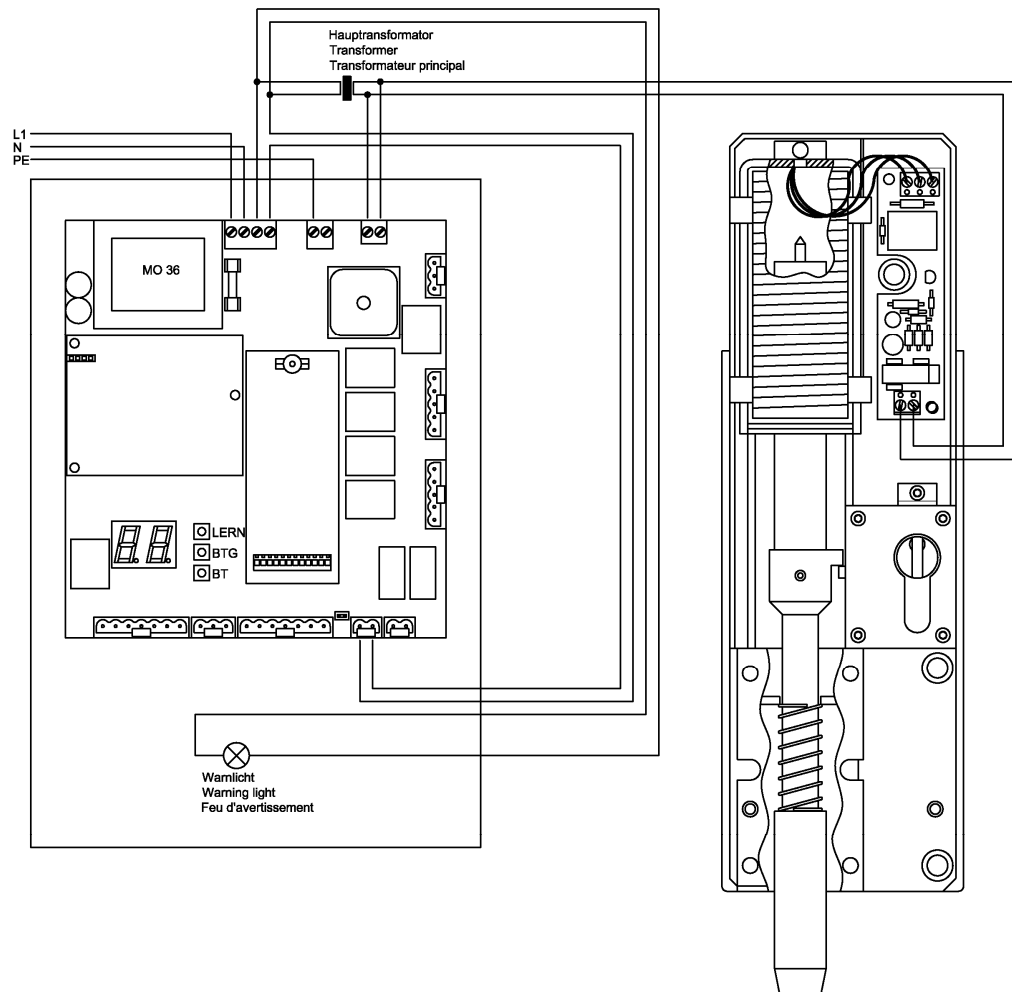


WARNING!

Danger by electrical voltage!

Danger of electric shock.

- The device should be connected to the supply voltage (230Vac) by a qualified electrician only.



Drawing 2

Connect the electromagnetic bolt E 205 to the transformer clamp of the main board (secondary wiring of the toroid transformer). The supply of the toroid transformer is switched over one conductor of the warning light connection.



Set the pre-warning time for both directions to 4 seconds (learning sequence P8).



When warning light and the E 205 shall be used, connect the warning light as shown above.

2.3.3 Electrical connection MO 32, MO 34 and other controllers



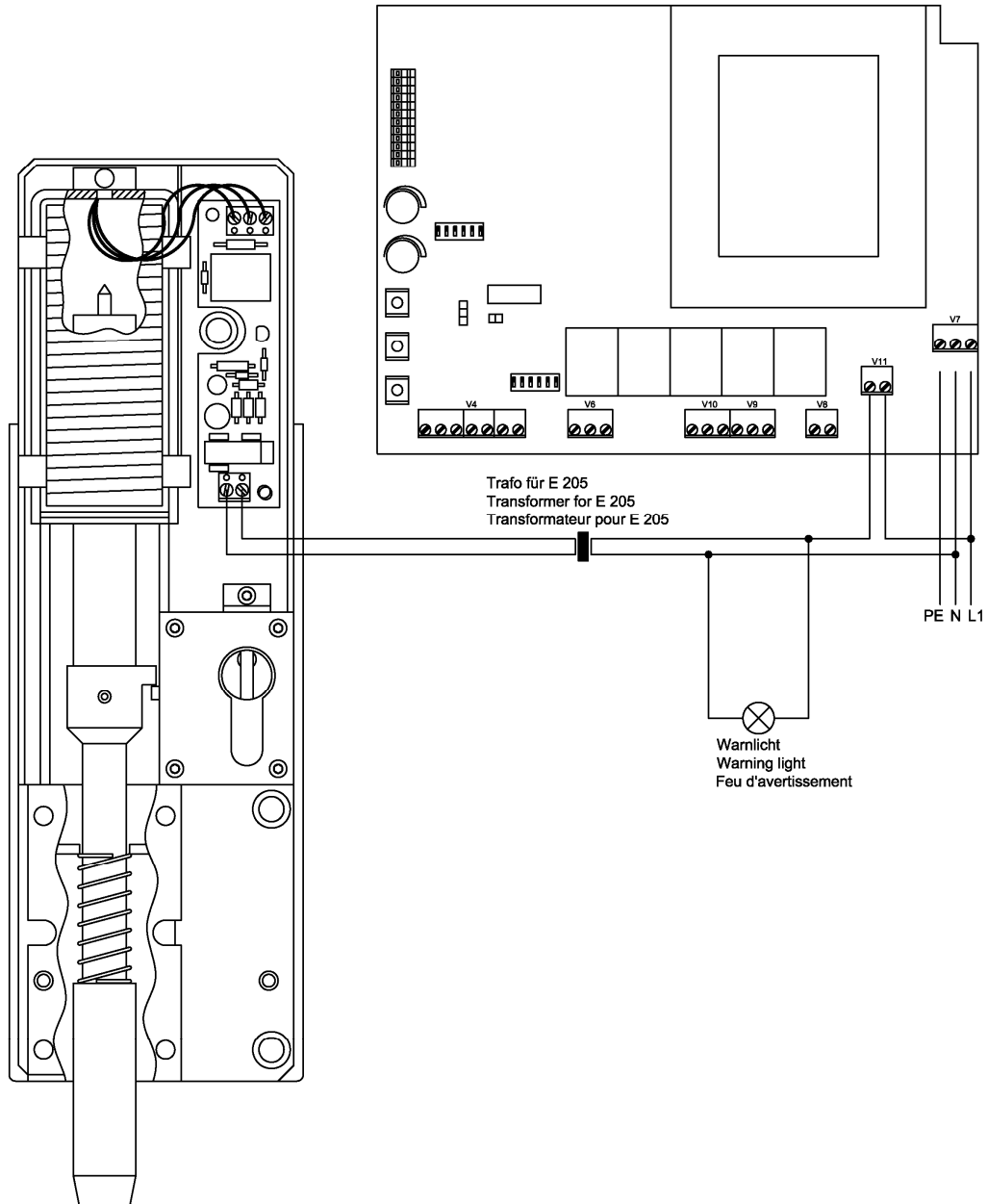
WARNING!

Danger by electrical voltage!

Danger of electric shock.

- The device should be connected to the supply voltage (230Vac) by a qualified electrician only.

Installation example controller MO 34

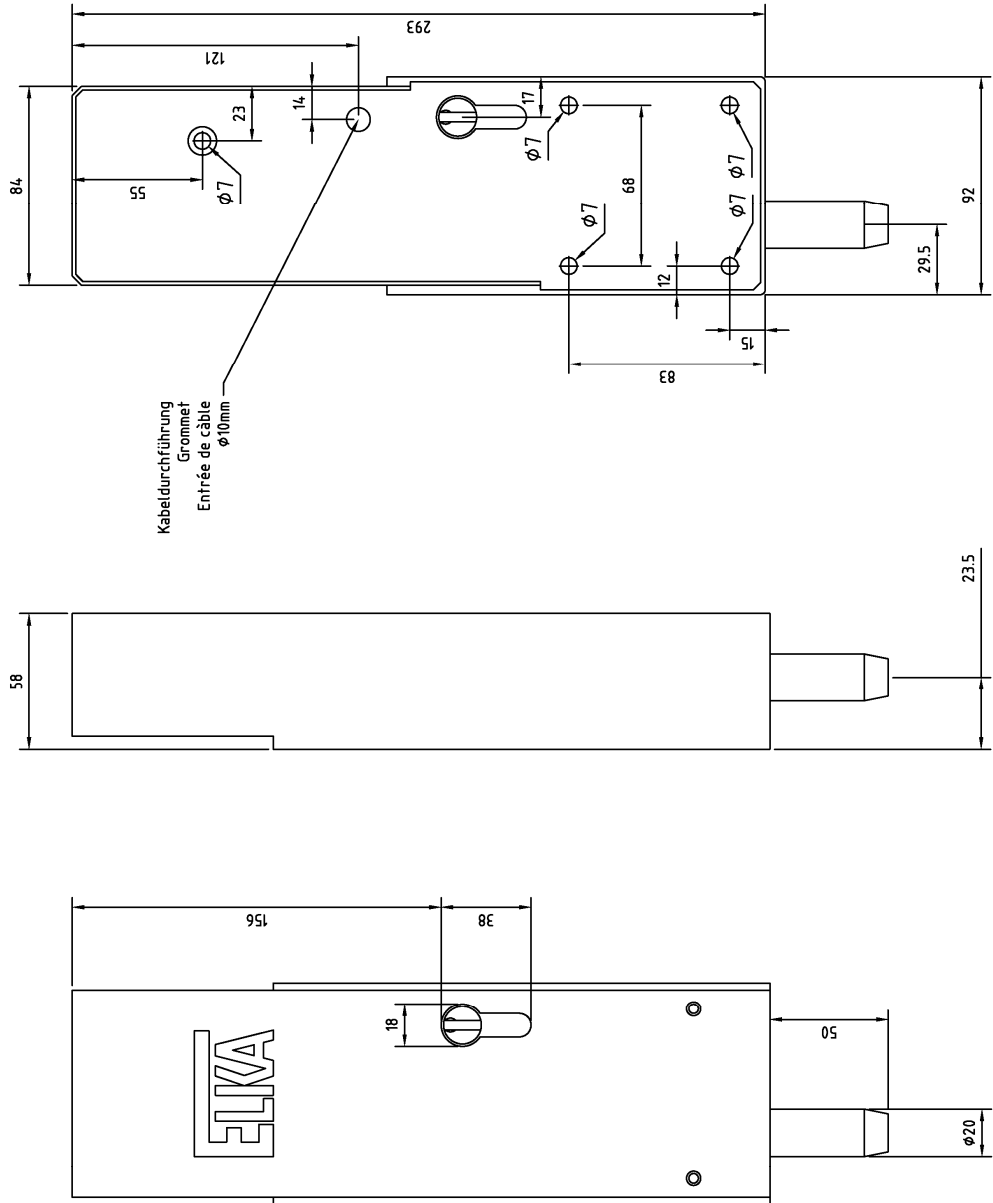


Drawing 3

With other controllers the power supply has to come through a separate transformer from a connection which is activated at every gate movement, e.g. warning light connection.

2.4 Installation measurements

Installation for locking downwards. The length of the pin is 50mm from the lower edge of the housing.



Drawing 4

2.5 Emergency release during power failure

Release the bolt by turning the key clockwise (approx. 4 turns) until the pin has reached its upper position.



ATTENTION!

Using the key move the pin into the uppermost (emergency released) position or into the lowest (engaged) position only. Do not move the pin into an in-between position.

Engage by turning the key counter-clockwise.



The enclosed single cylinder lock can be replaced by another single cylinder lock or by a double cylinder lock on site (e.g. from a master key system).



When using a double cylinder lock the lock can be released from inside or outside the gate as long as there is an opening for the double profile cylinder in the gate leaf.