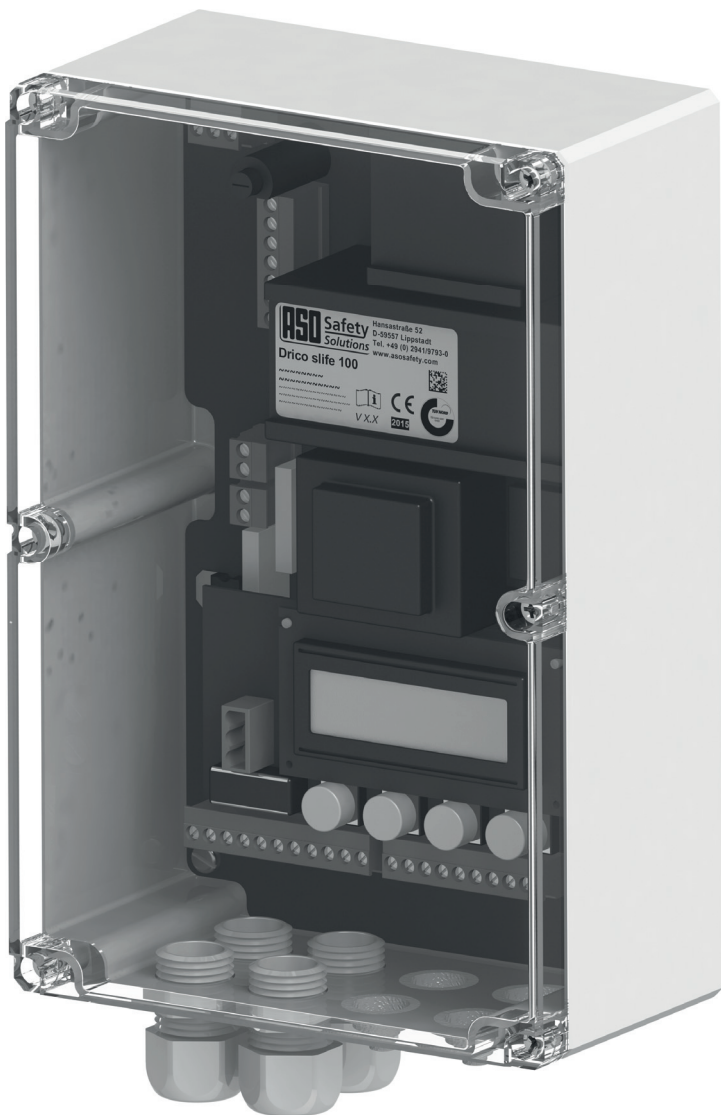


## DRICO *slife* 100



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# Übergabedokumentation / Documentation / Documentation de dation / Documentazione di consegna / Documentatie

Anlagenbeschreibung / Description / Description du système / Descrizione impianto / Beschrijving van de  
installatie

---

Anlagenart / Type of plant / Sorte du système / Tipo d'impianto / Type installatie

---

Hersteller / Manufacturer / Fabricant / Produttore / Fabrikant

---

Seriennummer / Serial number / Numéro de série / Numero di serie / Seriennummer

---

Datum der Inbetriebnahme / Commissioning date / Date de mise en marche / Data della messa in funzione /  
Datum van de ingebruikname

---

Aufstellort / Site of installation / Lieu de montage / Luogo d'installazione / Opstellingsplaats

---

Verwendete Steuerung / Control unit / Commande utilisée / Centralina di comando adottata /  
Gebruikte besturing

---

Zusatzkomponenten / Additional components / Composants supplémentaires / Componenti ausiliari /  
Bijkomende componenten

## Funktionsprüfung / Functional test / Contrôle de fonction / Controllo funzionale / Functiecontrole

Sicherheitssensoren reagieren auf Betätigung / Safety sensor response to actuation /  
Le sensor de sécurité réagit à l'actionnement / Il sensore di sicurezza reagisce all'azionamento /  
Veiligheidssensor reageert op activering

ok

Sicherheitssensoren reagieren auf Zuleitungsunterbrechung / Safety sensor response to supply  
line interruption / Le sensor de sécurité réagit à l'interruption de l'alimentation / Il sensore di  
sicurezza reagisce all'interruzione di collegamento / Veiligheidssensor reageert op onderbreking  
van de toevoerleiding

ok

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Name der ausführenden Firma / Owner / Nom de la société exécutrice / Nome della ditta esecutrice /  
Naam van de uitvoerende firma

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Name des Installateurs / Installer / Nom de l'installateur / Nome dell'installatore / Naam van de installateur

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Datum / Date / Date / Data / Datum

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Unterschrift / Signature / Signature / Firma /  
Handtekening

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## 1 General Notes

All previous editions lose their validity with this edition.

The information in this document may be changed without prior notice.

This operating manual is intended specifically for the installer of the door control unit DRICO slife 100.

The commissioning of the control unit may only be carried out by recognized trained electricians who are familiar with the safety standards of electrical drive and automation technology.

The safety instructions must be observed!

### 1.1 Icon Explanation



Caution. The following safety instructions must be observed to avoid personal injury.



Attention! The following safety instructions must be observed to avoid damage to property.



Information: Further information or a reference to other documentation follows here.

### 1.2 Terminology, definitions and abbreviations

AC..... Alternating Current

DC..... Direct Current

EMV..... electromagnetic tolerance

EN..... European Standard

FI..... Residual current circuit breaker

IP..... Intrusion Protection

INDUS..... Inductive cable transmission system from ASO, which replaces the trailing cable for the transmission of the traveling safety contact edges.

Io..... INDUS onboard

LC..... Liquid Crystal Display

DS..... DRICO slife

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## 2 Important safety notes

- This manual must be available at the installation place of the gate controller at all time.  
Any person assigned with the installation, operation and maintenance of the gate controller must read and follow this manual.
- Basic condition for safety-related handling and the failure-free operation of the gate controller is the knowledge of the fundamental safety guidelines and the safety regulations of the European standards and the professional associations.
- This manual, in particular the safety guidelines, are to be considered from all persons who works on the gate controller.
- For safety reasons the electrical installation is only to accomplished from a qualified electrical personnel according to the locally valid regulations for the prevention of accidents.  
In particular the following regulations must be considered: EN 60204 (VDE 0113), EN 50110 (VDE 0105), EN 60335 (VDE 0700).
- The opening of the gate-controller is only permitted with switched off power supply. For the disconnection of the power supply a main power switch or the use of a CEE plug is to be planned. The main power switch or the power supply plug must be easily accessible.
- Before performing any work on the gate controller, the voltage must be disconnected and verified that there is no live voltage.
- If the potential free contacts of the relay outputs are connected to a dangerous voltage, it is also necessary to switch off these voltages before working on the gate controller.
- The operation of the control with an opened enclosure is not permitted.
- Switching on and/or operation of a dewed gate controller is not permitted and can destroy the controller.
- The used stage nipple cable insertion may only cut to the stage, so that the insertion of the cable corresponds to the IP 54 protection against water and foreign objects.  
Damaged stage nipples must be exchanged immediately against intact.
- The intended use of the safety controller is the use at gates and doors. A different, or beyond this, use is not intended. The manufacturers do not assume liability for damages and malfunctions caused by not intended use.  
The manufacturer must permit the use in special applications.
- Faults, which can affects the safety, must be eliminated immediately.
- With the use of the gate in the manual mode operation it is to be guaranteed that the gate range can be seen by the operator.
- At the start-up operation and at the annually prescribed maintenance the parameter settings and the correct function of the safety device must be examined.
- The settings of the parameters and the maintenance of the gate situation may only checked by a qualified personnel. The results must be documented in such a way that it can be viewed and understood at any time.
- Never allow that children operate the gate controller. Take care that children don't play in the near or with the gate. Keep radio remote controllers in a place which is inaccessible to children.
- The manufacturer and the user of the gate, at which the controller is used, are responsible for the compliance with all valid safety regulations.
- The gate controller guarantees for itself a functional safety, however not the complete safety of the gate. Therefore, a safety consideration for the complete gate, according to the machinery directive 98/37 EC or to the appropriate product standard, is necessary before using this gate controller.

- The safety systems are to be examined in suitable time intervals by experts and be documented in at any time comprehensible way.
- The gate controller contains no user-serviceable parts. Any unauthorised modifications and/or repairs of the gate controller will terminate any guarantee and claim against the manufacturer.



**The DRICO slife 100 gate controller must be regarded as a component.**  
**It lies in the responsibility of the gate manufacturer and/or gate operator to ensure that its gate meets all relevant regulations and standards (machinery directive, EMC guideline etc.).**

**Technical and operating relevant changes to the products and devices specified in this documentation are reserved at any time also without advance notice.**

## 3 General

The free parametrizable gate controller DRICO slife 100 is developed for controlling 400V three-phase current and 230V one-phase current motors on sliding gates, roller doors, roller grills, and sectional doors in industrial, commercial and private use. As a result of the large flexibility, the variety of connection possibilities and the combination with further optional plug-on modules the gate controller DRICO slife 100 can be used in many areas.

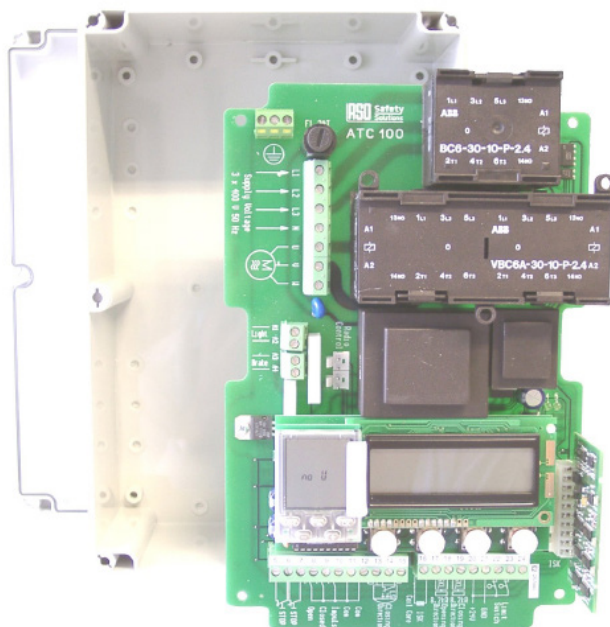
By the menu-driven programming of the DRICO slife 100 it is succeeded to simply arrange a complex control that fulfils many requirements and functions.

### 3.1 Highest safety for humans and object

- Complete testing of all safety-related parts before each gate movement
- Testing the contactor contacts on correct function before each movement
- In case of an error a second shut-down circuit for the motor current is available by the additional release contactor.
- As a compact unit the DRICO slife 100 fulfils the requirements of the latest gate standards.

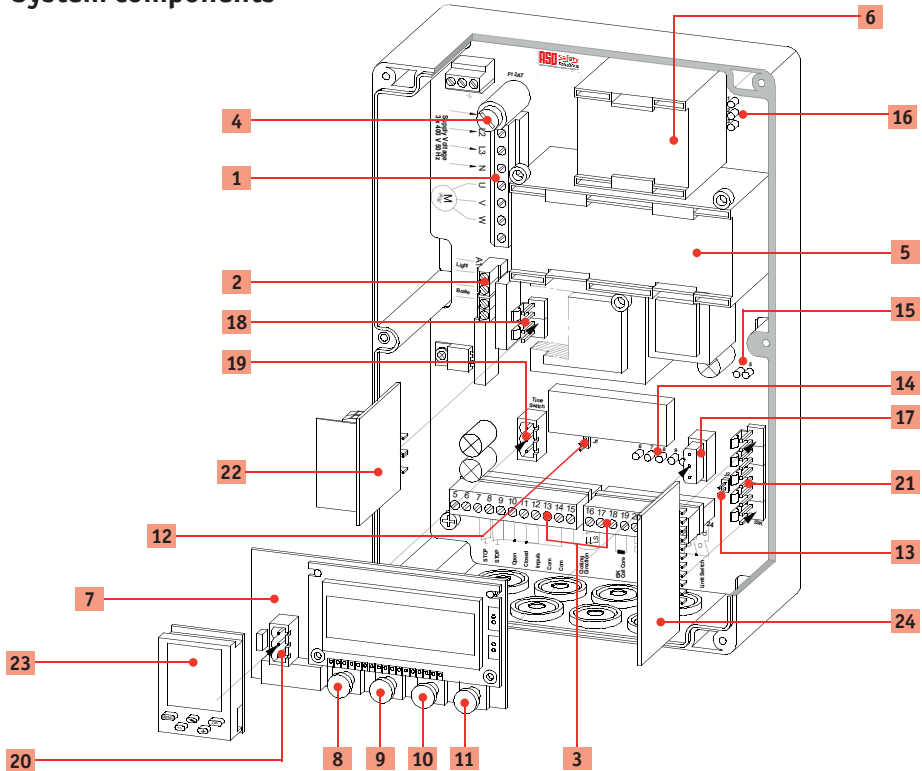
## 3.2 The advantages of the DRICO slife 100

- compact enclosure
- connecting possibility for three-phase and one-phase motors through the integrated reversing contactors
- simple, menu-driven programming of the controller by four buttons
- if necessary the pluggable control module offers protection against unauthorized access of the adjusted parameters
- malfunction and operating conditions are indicated by the two-line LCD display and by Led's
- integrated two-channel evaluation for stationary safety contact edges
- socket for inductive safety system ISK to monitoring the travelling safety contact edges at the gate wing
- socket for timer
- socket for radio controller
- alternatively complete or partial automatic revision after operating the safety contact edges
- pluggable connecting terminals for simpler assembly
- ALL-IN-ONE solution for the gate-automation





## 4 System components



- 1** Terminal clamps supply voltage, motor
- 2** Terminal clamps light and brake
- 3** Terminal clamps inputs
- 4** Fuse 2AT/250V
- 5** Reversing contactor
- 6** Release contactor
- 7** Control module
- 8** Menu selection button
- 9** Function button
- 10** Close (-) button
- 11** Open (+) button
- 12** Jumper J1
- 13** Jumper J2

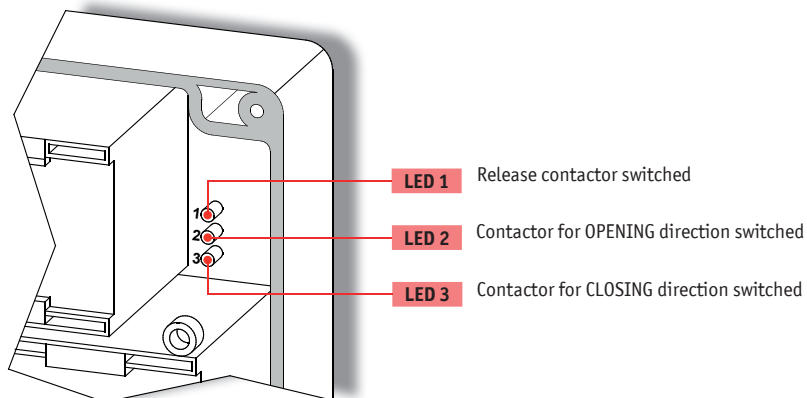
- 14** Led indicator for selftest
- 15** Led indicator safety contact edges
- 16** Led indicators contactors
- 17** Socket for DRICO slife 100 control module
- 18** Socket for radio controller
- 19** Socket for timer
- 20** Socket for timer „looped“
- 21** Socket for inductive safety system ISK 70-75

### Optional modules

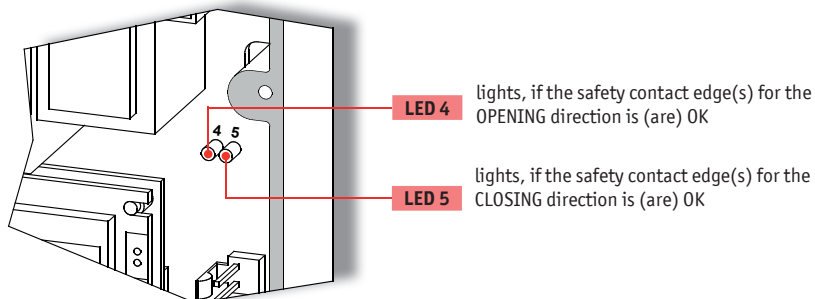
- 22** Radio controller
- 23** Week timer
- 24** Inductive safety system ISK 70-75

## 4.1 LED-indicators

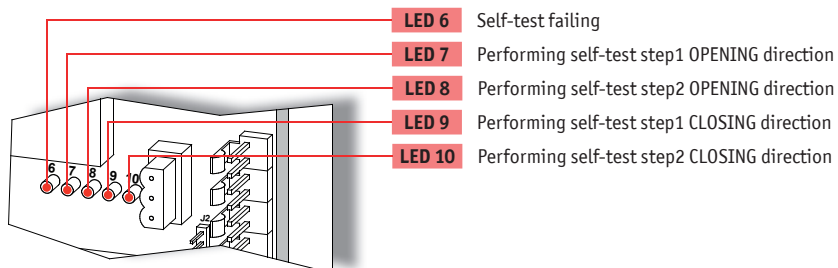
### LED-indicators for the contactors



### LED-indicator for the safety contact edges



### LED-indicators for the self-test



## 5 Electrical connection / Functional description



For safety reasons the electrical installation is only to be accomplished from a qualified electrical person.

The opening of the gate-controller is only permitted with switched off power supply. For the disconnection of the power supply a main power switch or the use of a CEE plug is to be planned.

The main power switch or the power supply plug must be easily accessible.

The points specified under the section - Important Safety Notes - are to be considered.

The close installation of signal- and electric power-lines should be avoided as far as possible.

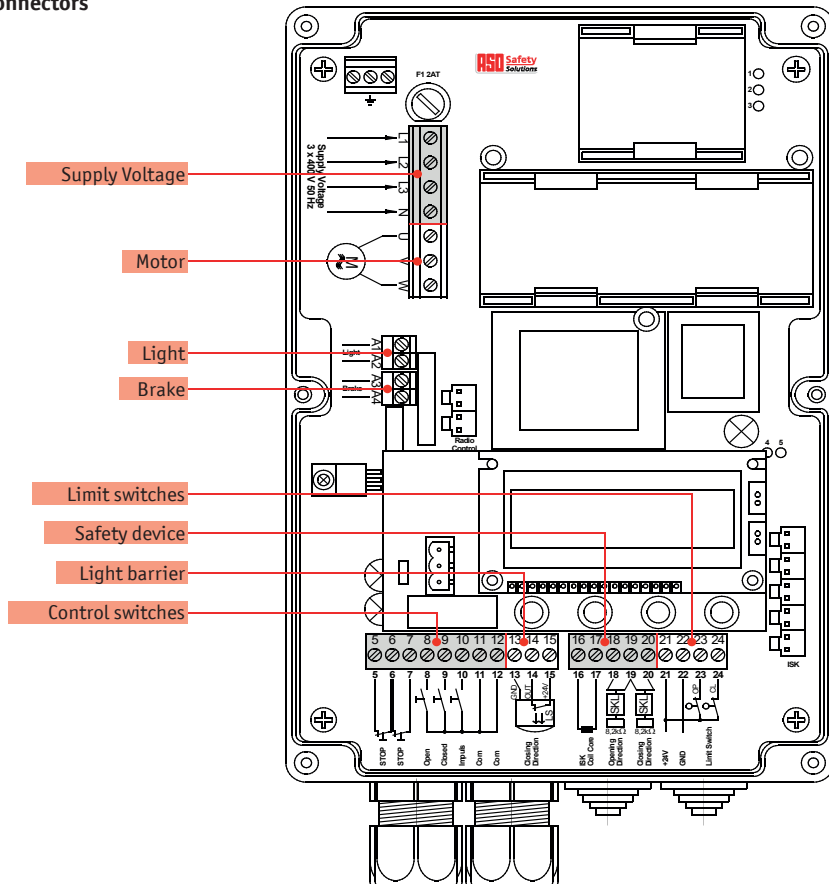
All lines are to be dimensioned according to the capacity.

For a simply attaching of the individual wires the clamps 5 to 24 are pluggable.

The used stage nipple cable insertion may only cut to the stage, so that the insertion of the cable corresponds to the IP 54 protection against water and foreign objects.

Damaged stage nipples must be exchanged immediately against intact.

### Overview connectors

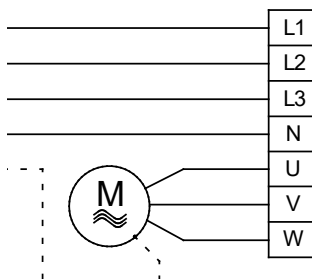


## 5.1 Mains voltage/ Motor connection

The DRICO slife 100 allows the optional connection of 400V - three-phase motors or 230V - one-phase motors. To the connection diagrams illustrated here the respective connection diagrams of the motor manufacturer are also to be considered. With motors without internal motor protection a suitable motor protection is to be planned. Safety devices of the motor, like temperature rise protection, crank handle switch etc., must be connected to the clamps.

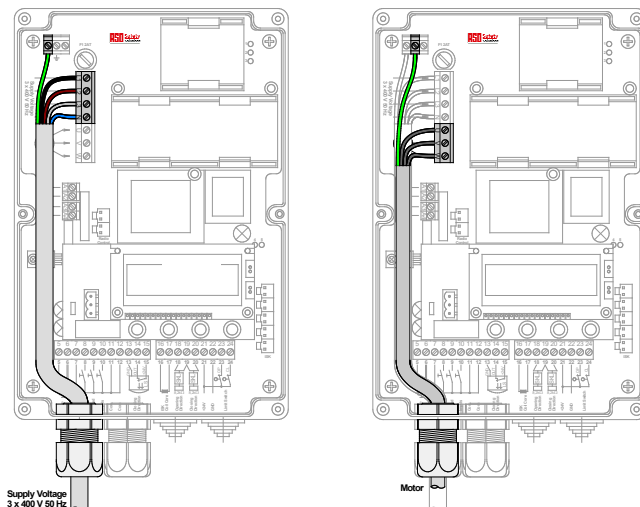
### 5.1.1 Three-phase motor connection

For the connection of a three-phase motor the supply voltage is to be connected to the clamps L1, L2, L3. For the internal supply voltage of the DRICO slife 100 it is necessary to connect the neutral conductor to the clamp N. The electrical safeguarding of the supply voltage is to be planned external and may have an amount of max. 3 x 10A. With the initial start-up of the gate pay attention to the rotation direction of the motor (if necessary exchange the connections V and W).



#### Wiring regulation

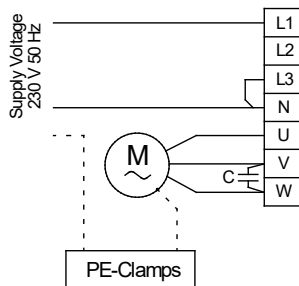
In order to keep the safety class, the jackets of this cables, as represented in the drawings, must reach up to the corresponding connectors. The removing of the jackets to the cable-glands is not permissible. After wiring the cable-glands must be tightened firmly.



## 5.1.2 One-phase motor connection

For the connection of a one-phase motor the supply voltage is to be connected to the clamps L1,N. The electrical safeguarding of the supply voltage is to be planned external and may have an amount of max. 10A.

With the initial start-up of the gate pay attention to the rotation direction of the motor (if necessary exchange the connections V and W). Connect the neutral conductor of the motor to the clamp U. Additionally a bridge has to be inserted between L3 and N.

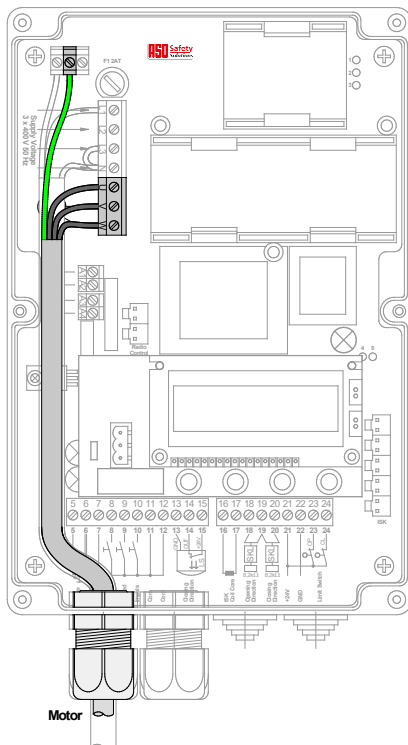
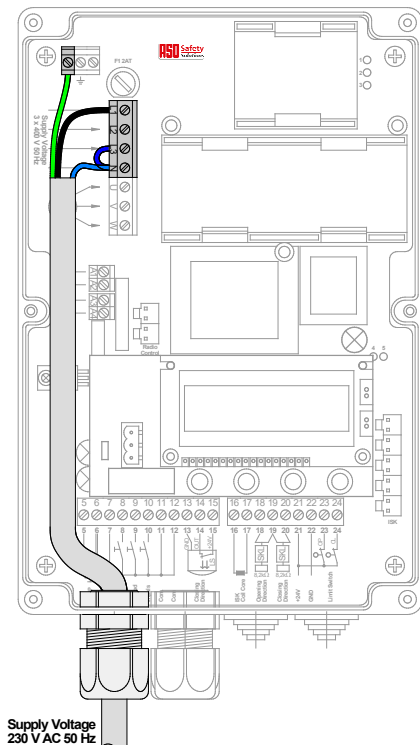


### Wiring regulation

In order to keep the safety class, the jackets of this cables, as represented in the drawings, must reach up to the corresponding connectors.

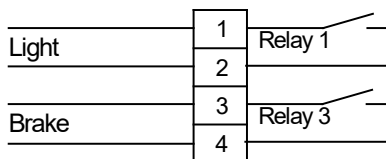
**The removing of the jackets to the cable-glands is not permissible.**

After wiring the cable-glands must be tightened firmly.



## 5.2 Relay outputs (potential free)

A warning-light (flashing-, round about light, etc.), which lights or flashes while opening or closing the gate, can be connected to the clamps **A1 A2**. Furthermore the output for the activation of a light or a brake can be used. An individual parametrizable brake can be attached to the clamps **A3 A4**.

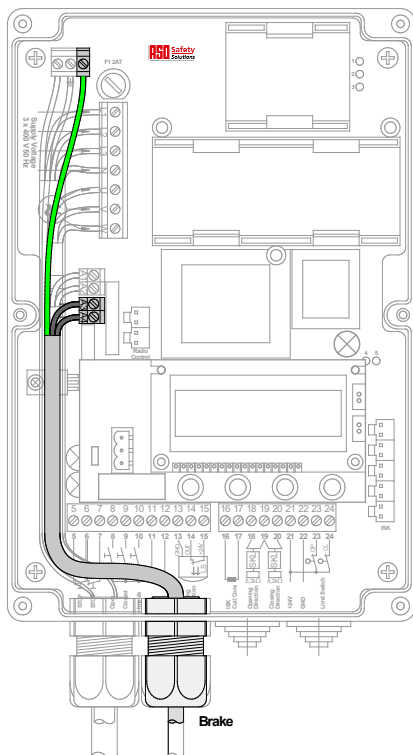
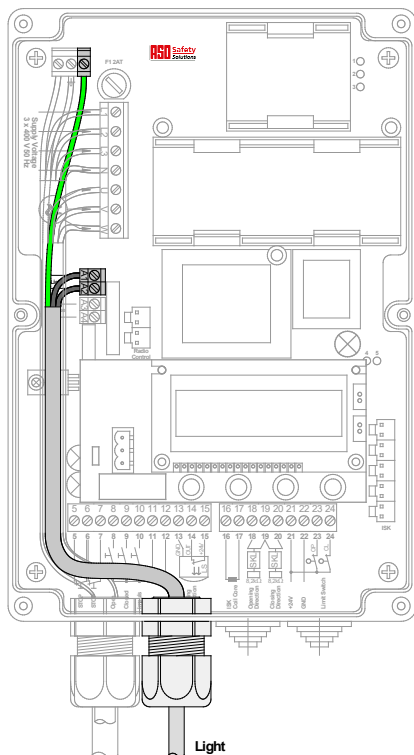


### Wiring regulation

In order to keep the safety class, the jackets of this cables, as represented in the drawings, must reach up to the corresponding connectors.

The removing of the jackets to the cable-glands is not permissible.

After wiring the cable-glands must be tightened firmly.



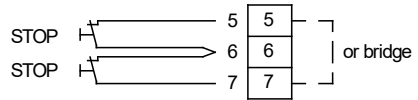
## 5.3 STOP inputs

The STOP-inputs are inputs without a safety-related-function. They are for the monitoring of STOP-signal generator (e.g. STOP-button etc.).

The two inputs are internally switched in series. If a stop is released, this causes an immediate stop in both directions of travel and the message „STOP“ appears in the display. The STOP-chain is active in every program step, except the gate end position. By the STOP-instructions all stored instructions (e.g. automatic closing etc.) are deleted.

Therefore a new initial instruction must possibly be given after clearance of the malfunction.

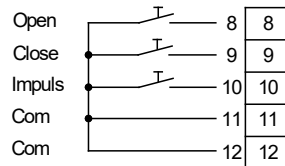
If an input and/or both inputs are not connected they are to be bridged accordingly. If there are more than two STOP-inputs needed the opener circles of the signal generators have to be switched in series.



## 5.4 Control switch inputs

Connect to the clamps **8 to 12** the control switches (normally open contacts) for the Opening, Closing and Impuls. These control switches can be implemented as switches, key-operated push buttons, code lock or extern radio controller.

Depending of the settings for „**Impuls**“ the impuls input initializes the instruction sequence „open-stop close-stop ...“and/or „open, close, open ...“. In the end positions of the gate the impuls will initiate the corresponding moving of the gate.

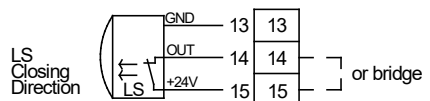


## 5.5 Light-barrier inputs

Inputs for a light barrier, which is active in the closing movement of the gate. Dependent on the settings an initiation of the light barrier in the closing movement causes a STOP with short or STOP with full reversion. Contrary to the full reversion the automatic closing will be deleted with the short reversion. If several light barriers are installed, the appropriate light barrier contacts are to be switched in series.

If the input is not used the inputs **14 15** are to be bridged accordingly.

With activation of the „secondary-time“ the function for quick closing after crossing the light barrier can be realized in the „automatic-mode“. Instead of the adjusted open-time the adjusted secondary-time is used as a new open-time after crossing the light barrier.



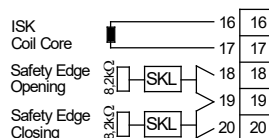
## 5.6 Safety contact edges connection

### Stationary safety contact edges

The direction depending monitoring of the stationary safety contact edges takes place directly on the DRICO slife 100. The contact edges working against the driving direction have no influence to the program sequence. If the automatic closing is activated

an actuating of the contact edges will reset the automatic closing till the next start-up signal.

Not used inputs must be terminated with a 8,2 kW resistor.



### Travelling safety contact edges

The direction depending monitoring of the safety contact edges travelling with the gate (sliding gates applications) takes place via the optionally plug-on inductive safety system ISK 70-75 electronic. The contact edges working against the driving direction have no influence to the program sequence. If the automatic closing is activated an actuating of the contact edges will reset the automatic closing up to the next start-up signal. Please take the detailed description and the assembly instruction for the ISK-system from the current ISK documentation.

For gates where no ISK modules is needed (roller-, revolving-, sectional-doors etc.) the function of the ISK-System can be deactivated. For this the jumper J2 is to be bridged.

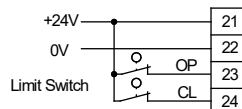


**The installation without safety contact edges and/or without ISK-system may only be used on gate-systems which have their own and to the latest standards confirming safety devices. Gate systems without safety devices may only operated in manual mode to prevent severe injuries.**

**The liability of the manufacturer is terminated with neglect or deliberate abuse.**

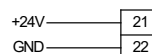
## 5.7 Limit switch inputs

The limit switches OPEN (*Limit Switch OP*) and the limit switch CLOSE (*Limit Switch CL*) are monitored permanently and are stringently necessary for the allocation of the actual end position. The limit switches can be implemented e.g. as rolling- or inductive limit switch (normally close contact). If end position OPEN and end position CLOSE is detected at the same time the program stops. The signal „ERROR end positions“ is indicated in the display.



## 5.8 Power supply output 24 V

For the supply of external consumers the DRICO slife 100 provides a power supply output with 24 V DC  $\pm$  15%.



24V DC for ext. consumer  
(max. 250 mA)



This 24 V power supply output may be loaded with **max. 250 mA**



## 6 Plug-on modules

All sockets on the DRICO slife 100 are particularly intended for the described plug-on modules. The inserting of other plug-on modules can damage or destroy the DRICO slife 100 controller as well as the plug-on modules. The plug-on modules may be inserted and/or taken off only in switched off condition of the control. The respective plug-on modules can be only inserted on the appropriate socket of the DRICO slife 100 and only in one direction. Taking off a plug-on module from it's socket is facilitated by mutual tilting of the appropriate module.

### 6.1 Control module

The pluggable control module serves the parametrization, the visualization of the control sequences and the diagnosis in case of an error.

The controller can be operated either with or without the control module. The operability of the controller is identical in both cases. With this the pluggable control module offers an effective protection from manipulation or unauthorized access.

The function range of the controller is not limited by the missing control module.

### 6.2 Additional modules (optionally available)



**Please pay attention to the individual documentations of the additional modules.**

#### 6.2.1 Inductive safety system ISK 70-75

With the additional module ISK 70-75 (**sliding gate application**) up to two travelling safety contact edge circuits can be connected and monitored direction depending. These safety contact edges at the gate wing are monitored by the inductive safety system wearout-free and without mechanical stress. The contact edge working against the direction has no influence to the program sequence. The semiconductor outputs are linked with the soft- and hardware of the control.



**The installation on a sliding gate application without ISK-system may only be used on gate-systems which have their own and to the latest standards confirming safety devices. Gate systems without safety devices may only operated in manual mode to prevent severe injuries. The liability of the manufacturer is terminated with neglect or deliberate abuse.**

#### 6.2.2 Time switch ZU 3

With the integration of the pluggable time switch a day-dependent automation of the gate system is possible. The time switch contains the following functions:

- Up to 8 program sequences per day (Rush-Hour)
- Program sequences can be copied to different days
- Smallest switching time is 1 minute
- Digital display of clock-time and weekdays
- Summer-/winter time conversion alternatively by hand or automatically

## 6.2.3 Radio control

The single-channel radio controller works with 433MHz.

Depending of the settings „*Impuls*“, the radio-impulse initializes the instruction sequence „Open-Stop-Close-Stop ...“ resp. „Open,Close,Open ...“.

In the end potions of the gate the radio impulse will initiate the corresponding moving of the gate.

- **Adjusting the radio receiver**

- Set the DIP-switch of the radio receiver to individual code.
- Select the key allocation of the receiver:

**1 Instruction hand-transmitter:**

insert jumper J1 und J2

**2 Instruction hand-transmitter:**

insert only jumper J2

first (left) key selected

insert only jumper J1

second (right) key selected

→

**3 Instruction hand-transmitter:**

insert jumper J1 and J2

first key selected

insert only jumper J2

second key selected

insert only jumper J1

→

third key selected

→

**4 Instruction hand-transmitter:**

insert jumper J1 and J2

first key selected

insert only jumper J2

second key selected

insert only jumper J1

→

third key selected

no jumper inserted

→

fourth key selected

→

→

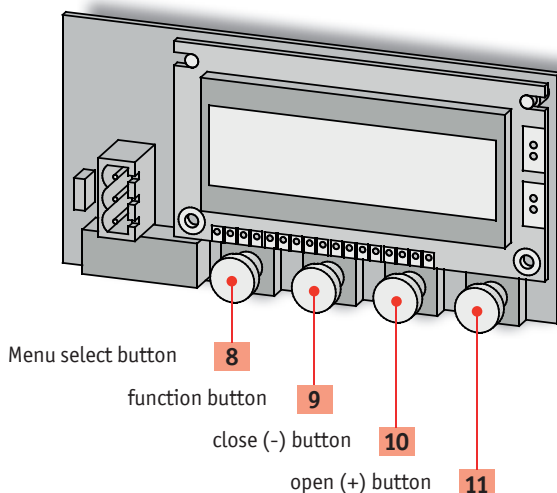
- **Adjusting the hand transmitter**

- Adjust the DIP-switch of the hand-transmitter accordingly to the settings of the radio-receiver.

## 7 Program settings

In this description of the settings a maximum configuration of the system is presupposed. If a component is missing in the system the appropriate subfunction of the controller is inactive (poss. insert bridge).

The display of the DRICO slife 100 control module is implemented as a two-line display. The upper line generally indicates the mode of operation. The second line indicates the selected function depending upon the mode of operation. In the mode automatic the conditions of the gate system are displayed here.



With the button **MENU SELECT** four modes of operation can be adjusted. By actuating the button (approx. 2 sec.) the individual modes of operation can be selected in sequence.

**AUTOMATIC**  
**MANUAL MODE**  
**ADJUST**  
**DIAGNOSIS**

In the different modes of operation the buttons **CLOSE(-)** and **OPEN(+)** have different functions.

### 7.1 AUTOMATIC

The button **CLOSE(-)** and **OPEN(+)** have no function.

### 7.2 MANUAL MODE

In the manual mode the drive can be opened with the button **OPEN (+)** and be closed with the button **CLOSE (-)**. (with faulty or missing safety devices no manual mode operation is possible).

## 7.3 ADJUST

For changing a control parameter the switch **MENU SELECTION** and the switch **FUNCTION** have to be pressed at the same time (approx. 2 sec.) to reach the adjust-menu.

The parameter to be changed can be selected by pressing the switch **FUNCTION** (the individual parameters are indicated „rolling wise“). The appropriate selected parameter can be adjusted by pressing the switches **OPEN(+)** or **CLOSE(-)**.

If all parameters are adjusted in this way, press the switches **MENU SELECTION** and **FUNCTION** to leave the adjust-menu. If no switch is actuated in the adjust-mode for 90 sec., all adjusted parameters are taken over and the control switches to **MANUAL MODE**.

With the switch **MENU CHOICE** the mode „AUTOMATIC“ can be selected again.

The parameters appear in the following sequence and the functions as described.

- **LCD**

**Deutsch/English/Français Pre-setting: Deutsch**

Language attitude for control module.

- **Run Time**

**1 up to 240 sec. Pre-setting: 120 sec.**

In order to protect drive and gate mechanics the run time is monitored during opening phase and closing phase. If the appropriate limit switch is not reached in the programmed time the program is broken off. The adjusted run time should be selected 10 sec. longer than the maximum gate run time. The display indicates ERROR run time as a control.

- **Open Time**

**0 up to 600 sec. Pre-setting: 0 sec.**

The counting of time begins after reaching the limit-switch OPEN. After the expired time the advance warning time begins followed by the automatic locking.

The automatic locking is deactivated if the opening time is adjusted to 0.



Automatic closing can also be prevented on the hardware side. For this the Jumper 1 is to be removed.

- **Pre-Warning time**

**0 up to 120 sec. Pre-setting: 0 sec.**

(Applicable only in closing-movement)

With setting 0 the gate starts immediately after the instruction input. With adjusted time the pre-warning is started and the gate only starts to run after expiration of the adjusted time.

- **Reversal Time:**

**0,1 up to 2,0 sec. Pre-setting: 0,5 sec.**

Downtime after changing direction.

- **2nd Time:**

**0 up to 60 sec. Pre-setting: 0 sec.**

With activating the „2nd time“ the function of quick closing after crossing the light barrier can be realized with „automatic closing“. Instead of the adjusted open time the 2nd time is used as stop time after crossing the light barrier.

- **Relay Light:**  
**MOD 1,2,3,4 or 5**      **Pre-setting: MOD 1**  
Relay output for the control of a light, a warning light or a brake at the gate.  
  
**MOD 1:** Continuous light function as long as gate is in motion  
**MOD 2:** Light control after open-instruction for 3 min  
**MOD 3:** Brake function, relay switched if gate stops  
**MOD 4:** Trouble report, lights as long trouble lasts  
**MOD 5:** Trouble report, like MOD 4 but with 20 sec. turn-off delay
  
- **Edge CL:**  
**MOD 1 or 2**      **Pre-setting: MOD 2**  
This parameter specifies the reaction of the controller if the contact edge is activated in the closing movement.  
  
**MOD 1:** STOP plus short reversion 1,5 sec.  
**MOD 2:** STOP plus full reversion
  
- **Edge OP:**  
**MOD 1 or 2**      **Pre-setting: MOD 1**  
This parameter specifies the reaction of the controller if the contact edge is activated in the opening movement  
  
**MOD 1:** STOP plus short reversion 1,5 sec.  
**MOD 2:** STOP plus full reversion
  
- **Light B. CL:**  
**MOD 1 or 2**      **Pre-setting: MOD 2**  
This parameter specifies the reaction of the controller if the light barrier is activated (closing movement).  
  
**MOD 1:** Light B. CL. STOP plus short reversion 2 sec.  
**MOD 2:** Light B. CL. STOP plus full reversion
  
- **Brake:**  
**MOD 1,2,3 or 4**      **Pre-setting: MOD 2**  
This parameter specifies how the motor-brake is triggered.  
  
**MOD 1:** Relay is triggered while the motor stands  
**MOD 2:** Relay is triggered while the motor runs  
**MOD 3:** Relay is triggered for 3 sec. while the motor stands  
**MOD 4:** Relay is triggered for 3 sec. while the motor runs
  
- **Impulse:**  
**MOD 1 or 2**      **Pre-setting: MOD 1**  
Specifies the function of the impulse-input.  
  
**MOD 1:** open/stop/close/stop ...  
**MOD 2:** open/close/open ...

- **Time switch:**

**MOD 1 or 2**

**Pre-setting: MOD 1**

Specifies the function of the time switch.

The operation of the gate is at anytime possible because the clock only prevents automatic closing.

**MOD 1:** Opening of the gate by switch open, after that the clock keeps the gate open.

**MOD 2:** Opening of the gate by clock, after that continuous open.

## 7.4 DIAGNOSIS

In the mode diagnosis are in each case 2 inputs indicated in the display as a check of the conditions. The inputs are indicated as cleartext with associated ON or OFF. Using the switches **open (+)** and **close (-)** changes to the next pair of inputs.

In case of malfunction all inputs can be checked very easy by this indication without using measurement instruments. By a further actuating the switch **FUNCTION** the next mode is reached.

### Indicated operating conditions

- **EDGE OP (Safety contact edge opening direction)**

Displays the operating conditions of the safety contact edges for the opening direction.

**EDGE OP            On**

Safety contact edges are wired and no operation or malfunction is present

**EDGE OP            Off**

Safety contact edges are not wired or an operation or malfunction is present.

- **EDGE CL (Safety contact edge closing direction)**

Displays the operating conditions of the safety contact edges for the closing direction.

**EDGE CL            On**

Safety contact edges are wired and no operation or malfunction is present.

**EDGE CL            Off**

Safety contact edges are not wired or an operation or malfunction is present.

- **AUTO RUN (automatic closing of the gate)**

Displays whether the automatic closing of the gate is activated or not. The automatic closing of the gate can be disabled over the Jumper J1.

**AUTO RUN            On**

Automatic closing activated

**AUTO RUN            Off**

Automatic closing not activated

- **Light B. CL**

Displays the operating conditions of the passage light barrier for the closing movement.

**Light B. CL            On**

Passage light barrier installed and light beam is not interrupted.

**Light B. CL            Off**

Passage light barrier not installed or light beam is not interrupted.

- **LIMIT SW OP (limit switch for opened gate)**

Displays the operating conditions of the limit switch for opened gate position.

**LIMIT SW OP    On**

Limit switch wired correctly and is not operated

**LIMIT SW OP    Off**

Limit switch is not wired correctly or is operated

- **LIMIT SW CL (limit switch for closed gate)**

Displays the operating conditions of the limit switch for closed gate position.

**LIMIT SW CL        On**

Limit switch wired correctly and is not operated

**LIMIT SW CL        Off**

Limit switch is not wired correctly or is operated

- **SWITCH OPEN (Switch/button for OPEN-instruction)**

Displays the operating condition of the switch/button for the OPEN-instruction.

**SWITCH OPEN        On**

Switch/button is operated

**SWITCH OPEN        Off**

Switch/button is not operated

- **SWITCH CLOSE (Switch/button for CLOSE-instruction)**

Displays the operating condition of the switch/button for the CLOSE-instruction.

**SWITCH CLOSE    On**

Switch/button is operated

**SWITCH CLOSE    Off**

Switch/button is not operated

- **STOP**

Displays the operating condition of the stop chain. To the STOP chain belongs e.g. stop tracer, emergency stop pushbutton etc., which are switched into row.

**STOP                    On**

Stop-chain is wired correctly respectively no device is operated or has triggered.

**STOP                    Off**

Stop-chain is not wired correctly respectively a device is operated or has triggered.

- **IMPULS**

Displays the operating condition of the impuls switch/button

**IMPULS                On**

Switch/button is operated

**IMPULS                Off**

Switch/button is not operated

- **TIME SWIT.**

Displays the operating condition of the time switch.

**TIME SWIT.**                      **On**

Time switch gives an instruction to the controller.

**TIME SWIT.**                      **Off**

Time switch doesn't give an instruction to the controller.

- **CYCLE**

The counted cycles which are executed so far by the controller are indicated here.

## 8 Jumper settings:

With the 2 jumpers on the board general functions can be adjusted.

- **Jumper J1 : automatic closing**

**J1 open:**                      automatic closing deactivated

**J1 bridged:**                      automatic closing activated

- **Jumper J2 : SK-Safety system**

**J2 open:**                      ISK-Safety system activated

**J2 bridged:**                      ISK-Safety system deactivated

## 9 Article number

|   |        |
|---|--------|
| DRICO slife 100 Mainboard   | 302031 |
| Control module for DRICO slife 100                                      | 302033 |
| DRICO slife 100 G (inside housing and Control module)                   | 302030 |
| DRICO slife 100 GH (inside housing with Main-Switch and Control module) | 302032 |
| Housing for DRICO slife 100   | 302034 |
| Plug-on module ISK 70-75  | 204160 |
| Plug-on module ISK 70-75 in set with SPK9 and SPK 12                    | 204162 |
| Timer ZU 3  | 550103 |
| Radio receiver HE one-channel with rod aerial                           | 515110 |
| Hand transmitter HE one-channel   | 514001 |
| Hand transmitter HE two-channel   | 514002 |
| Hand transmitter HE four-channel  | 514004 |



## 10 Housing

ABS-Housing with cable glands and stage nipple cable insertions.

### 10.1 Mounting of the housing

Before mounting the controller is to be examined for possible transportation or other damages. If the electronic or the housing is damaged the controller may not be installed or taken in operation.

After removing the cover the housing can be fixed with four screws.

- **Mounting on walls:**

Wood screws 4x40mm with 6mm dowel

- **Mounting on the gate:**

Tapping screw 4x20mm or machine screw M4x20mm

The DRICO slife 100 is to be fastened professionally with all four screws to a suitable mounting place with even underground.

The DRICO slife 100 is designed for a vertical mounting.

In order to prevent infiltrating humidity through the cable glands, the enclosure should be installed in such a way that the cable glands point downwards.

The weight of the controller of approx. 1,8kg should be absolutely considered with the choice of the mounting.

### 10.2 Housing dimensions

See pages 26 - 27

## 11 Technical data

### • Supply voltage

|       |                    |   |
|-------|--------------------|---|
| $U_E$ | 3 x 400 V 50/60 Hz | main power supply for three-phase drive         |
| $U_E$ | 230 V 50/60 Hz     | main power supply for alternating current drive |

|                   |                 |                     |
|-------------------|-----------------|---------------------|
| $I_E / I_{E\max}$ | 65 mA / 107 mA  | current consumption |
| $P / P_{\max}$    | 15 VA / 24,5 VA | power consumption   |

*The maximum values apply to a maximum configuration of the controller and withdrawal of the maximum capacity to external 24 V components.*

### • Safeguarding by others

|       |           |
|-------|-----------|
| $F_B$ | max. 10 A |
|-------|-----------|

### • Safeguarding internal

|       |              |                        |
|-------|--------------|------------------------|
| $F_i$ | T 2A / 250 V | glass tube fuse 5x20mm |
|-------|--------------|------------------------|

### • Supply outputs 24 V DC

|                 |                   |
|-----------------|-------------------|
| $U_{Out24V}$    | 24 V DC $\pm$ 15% |
| $I_{Outmax24V}$ | 250 mA            |
| $P_{Outmax24V}$ | 6 W               |

*To guarantee the perfectly function of the controller the indicated maximum values may be exceeded in no way.*

### • Motor reversing contactor

|                |        |   |
|----------------|--------|---|
| $P_{Smax230V}$ | 2,2 KW | max. contactor output with 230 V three-phase drives |
| $P_{Smax400V}$ | 4 KW   | with 400 V alternating current drives               |

### • Relay stages

|           |          |                        |
|-----------|----------|------------------------|
| $U_{REL}$ | 250 V AC | max. switching voltage |
| $I_{REL}$ | 2,5 A AC | max. switching current |

### • Switching times Safety device

|       |              |                                 |
|-------|--------------|---------------------------------|
| $T_A$ | $\leq$ 25 ms | STOP initiated → contactor open |
| $T_A$ | $\leq$ 30 ms | ISK initiated → contactor open  |

### • Protection class

IP 54 housing with cable fittings

### • Weight

1,8 kg

### • Temperature range

-10 °C to +55 °C

### • Store temperature

-20 °C to +70 °C

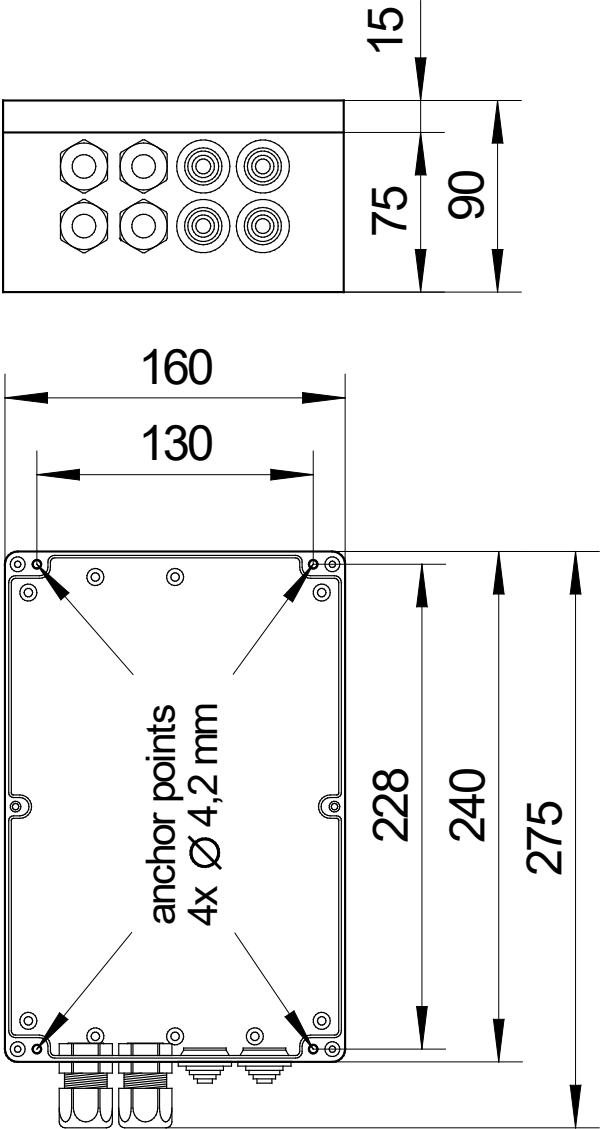
### • Approvals

EN 12453 - „Nutzungsicherheit kraftbetätigter Tore“

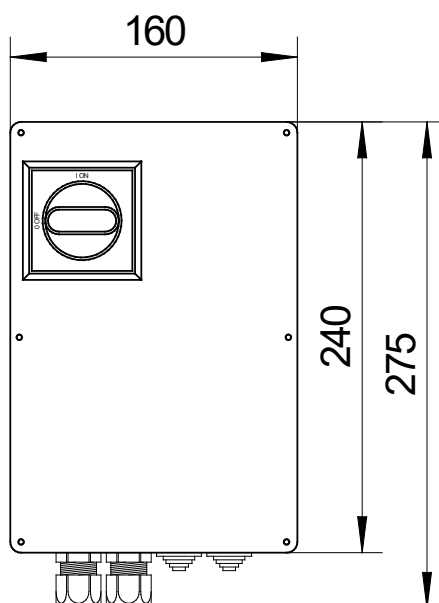
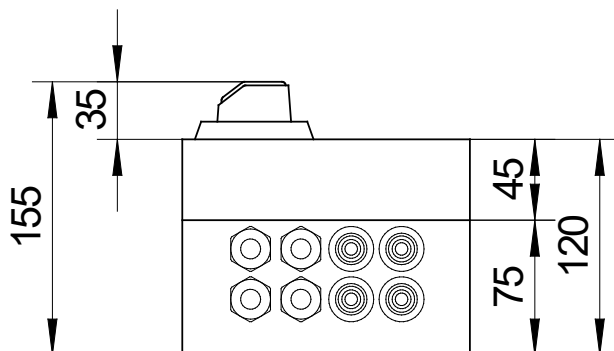
EN 12978 - „Schutzeinrichtungen für Kraftbetätigte Tore“



**Housing dimensions DRICO slife 100 G**  
dimensions in mm



**Housing dimensions DRICO slife 100 GH**  
dimensions in mm



## This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating pattern across the entire surface, forming a grid that is useful for writing, drawing, or planning. The dots are small and dark, set against a plain white background.

## Notes

A series of horizontal dotted lines for writing.

[illegible]

## English

DOC0000976 Betriebsanleitung Rev. 03

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