1 HOLDING BRAKE FD 20

1.1 General remarks

The present Option instructions are only applicable in conjunction with the:
• Mounting and operating instructions 0548-990/02
Before carrying out the first work step, these documents must be entirely read and understood.

1.2 Requirements

• Upon completion of a new installation, all the elements have been built in according to the respective Mounting instructions and the respective Geometry drawing.

• If the holding brake is installed at a later date, the installation must be taken out of operation.

Warning:
Risk of electric shock! Before working on any live elements, pull out the mains plug respectively switch off the main installation switch!

1.3 Mounting versions

The mounting of the holding brake depends on the respective door configuration.
A distinction is made between the following 3 variants:

1-leaf installation
• Mounting of all components on the corresponding swing door drive mechanism.

2-leaves installation <u>with</u> mechanical closing sequence regulator
1 holding brake 0548-182
• 1 holding magnet SECONDARY drive mechanism
• 1 mini relay SECONDARY drive mechanism
• 1 open position transmitter SECONDARY drive mechanism

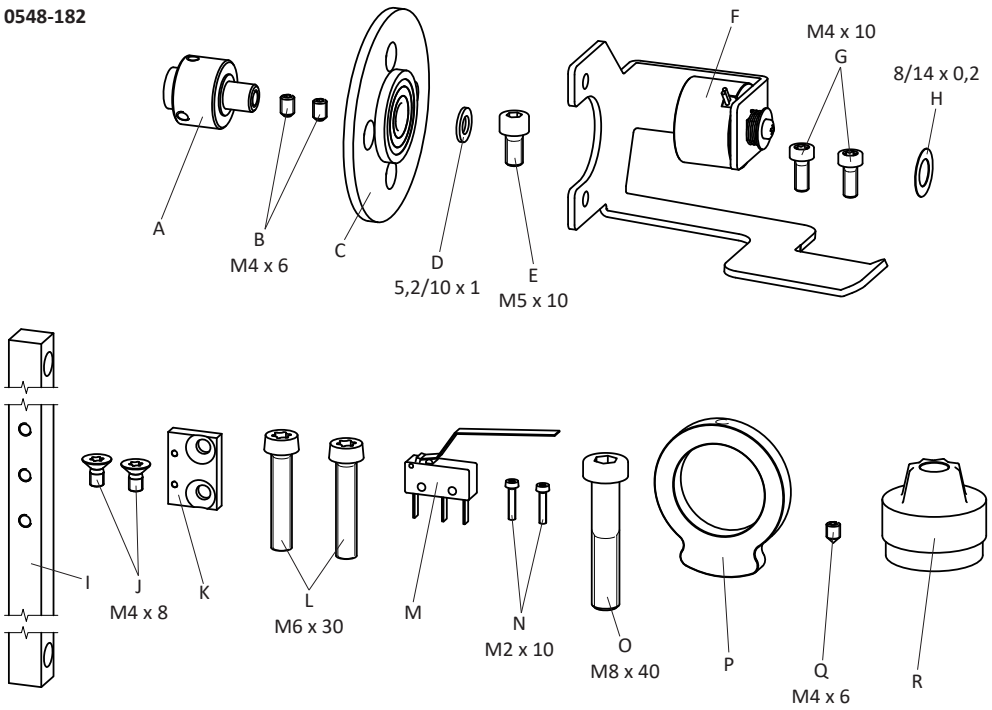
2-leaves installation <u>without</u> mechanical closing sequence regulator
2 holding brakes 0548-182
• 2 holding magnets MAIN and SECONDARY drive mechanism
• 2 mini relays MAIN and SECONDARY drive mechanism
• 1 open position transmitter SECONDARY drive mechanism

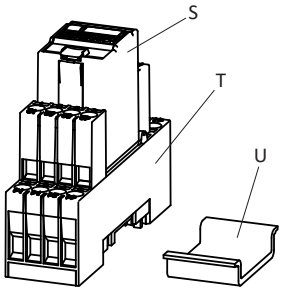
1.4 Mounting

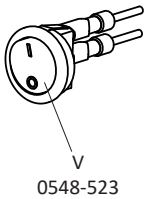
Material:

..	Holding brake	0548-182
..	Option instructions	0548-992/72

Note:
The mounting is carried out according to the present drive mechanism situation.





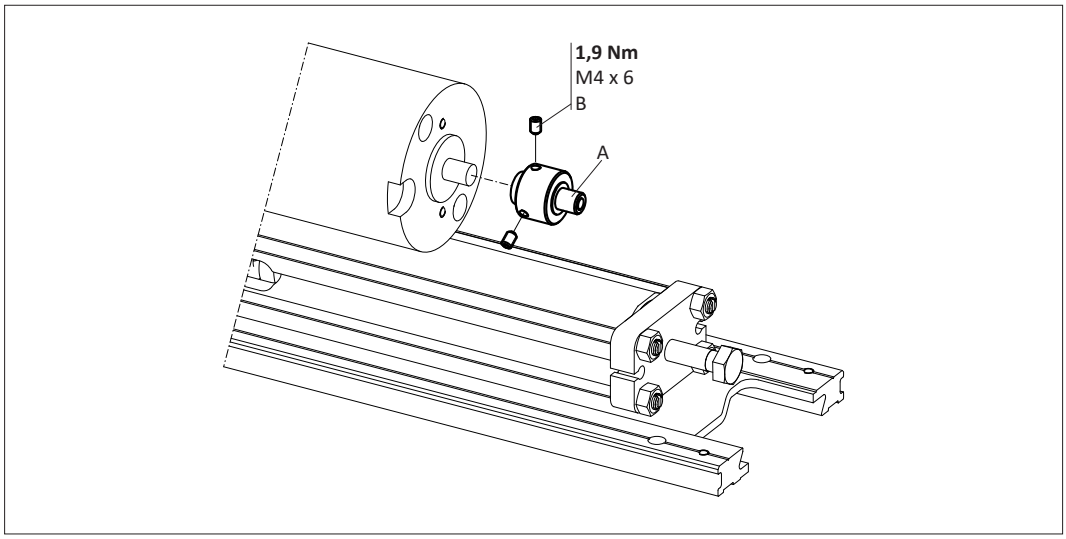


A	Free-wheel hub	
B	Set screw	M4 x 6
C	Brake disc	
D	Washer	5,2/10 x 1
E	Pan-head screw	M5 x 10
F	Holding magnet	
G	Pan-head screw	M4 x 10
H	Adjusting washer	8/14 x 0,2
I	Switch support	
J	Flat head screw	M4 x 8
K	Adapter plate	
L	Pan-head screw	M6 x 30
M	Microswitch	
N	Pan-head screw	M2 x 10
O	Pan-head screw	M8 x 40
P	Cam	
Q	Set screw	M4 x 6
R	Clamping piece	
S	Mini relay	
T	Socket Mini relay	
U	Device rail	
V	Switch PERMANENT OPENING	0548-523

1.4.1 Free-wheel hub

Procedure:

1. Push the free-wheel hub (A) onto the corresponding motor shaft (to the stop) and tighten it by means of two set screws (B) ⇨ Tightening moment 1,9 Nm.

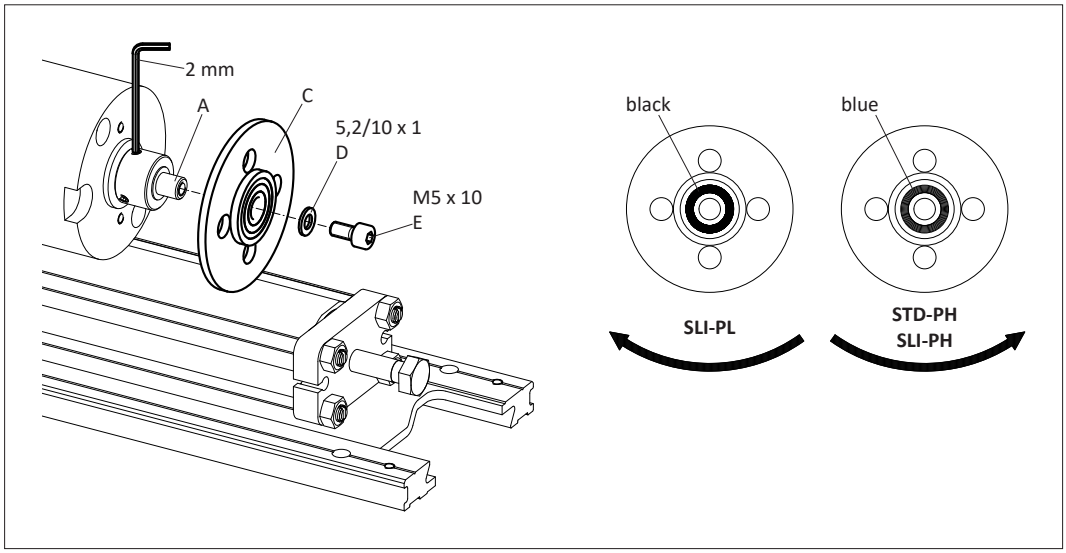


1.4.2 Brake disc

Procedure:

1. Push brake disc (C), incl. free-wheel, in correct position onto free-wheel hub (A):
   Black plastic ring visible ⇨ Sense of rotation clockwise ⇨ Sliding rod pulling function SLI-PL.
   Blue plastic ring visible ⇨ Sense of rotation counterclockwise ⇨ Normal rod STD-PH, sliding rod pushing function SLI-PH.

2. Fix the free-wheel hub (A) (using a 2 mm hexagon socket wrench):
   Slightly tighten the pan-head screw (E) and washer (D).



1.4.3 Holding magnet

Procedure:

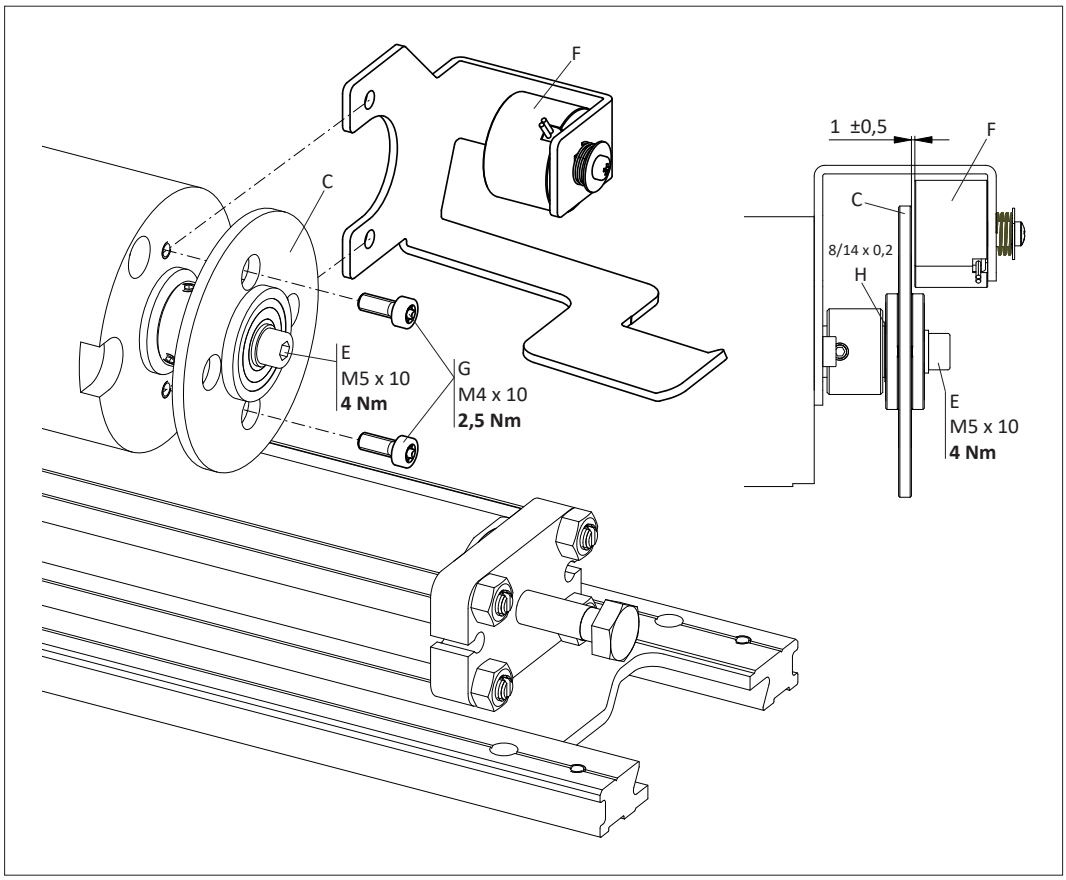
1. Fasten the holding magnet (F) to the motor with two pan-head screws (G) ⇨ Tightening moment 2,5 Nm.

2. Check distance 1 ±0,5 mm between brake disc (C) and holding magnet (F).

3. If necessary:
   Shim the brake disc (C) with adjusting washers (H).
   To do this, remove the holding magnet (F) and loosen the pan-head screw (E).

4. Apply a little Loctite 243 to the pan-head screw (E) and fix the brake disc (C) definitively ⇨ Tightening moment 4 Nm.

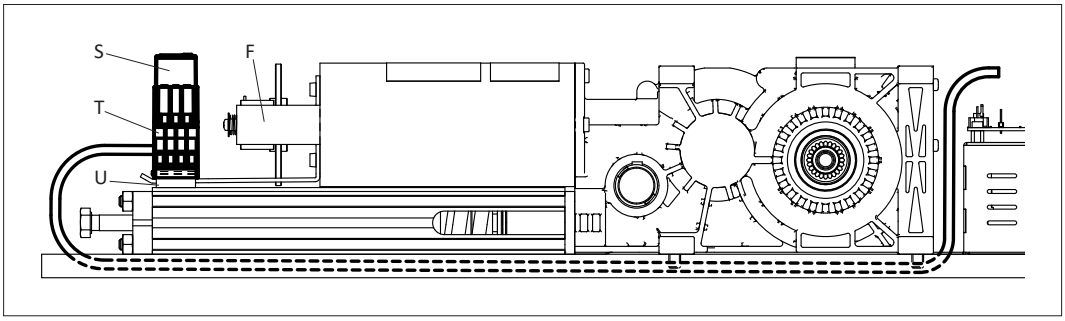
5. Fasten the holding magnet (F) to the motor with two pan-head screws (G) ⇨ Tightening moment 2,5 Nm.



1.4.4 Mini relay

Procedure:

1. Push the mini relay (S) and the socket (T) onto the device rail (U)
2. Push the mini relay (S) up to the stop under the holding sheet of the holding magnet (F).
3. Feed the pre-assembled cable between the drive module and the chassis profile and pull it up to the control unit.



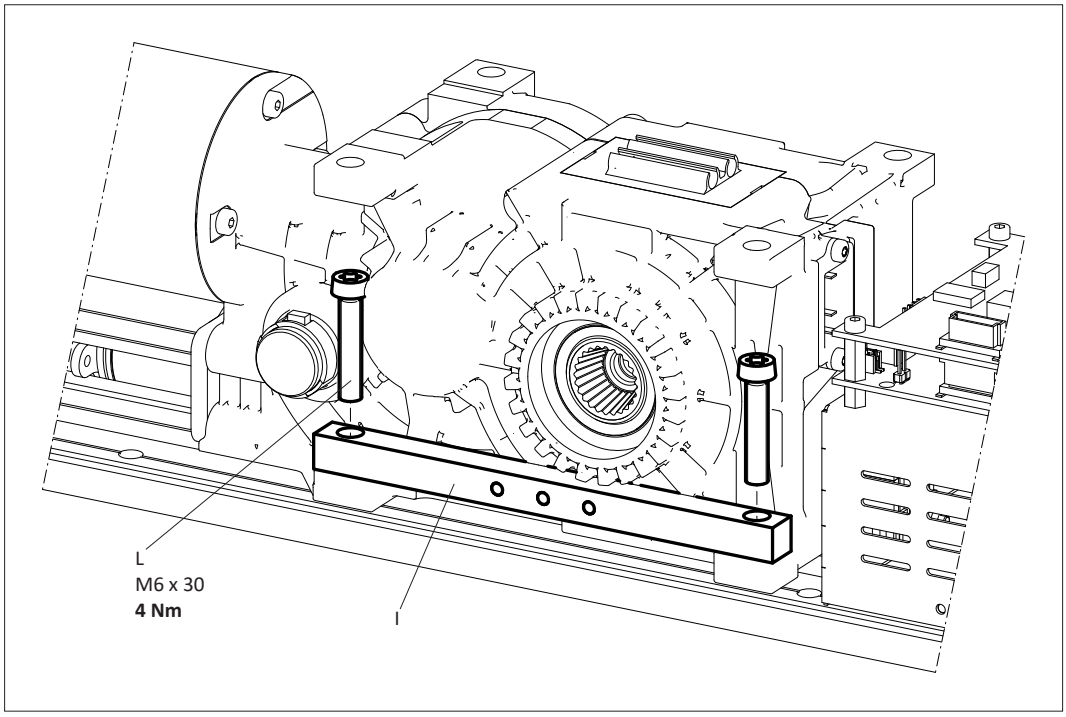
1.4.5 Support open position transmitter

Attention:
In 2 leaves installations, the open position transmitter is always mounted on the SECONDARY drive mechanism.

Procedure:

1. Loosen and remove two fixing screws on the gear housing (on the opposite side of the rod assemblies).

2. Position switch support (I) and fix it by means of pan-head screws (L) ⇨ Tightening moment 4 Nm.



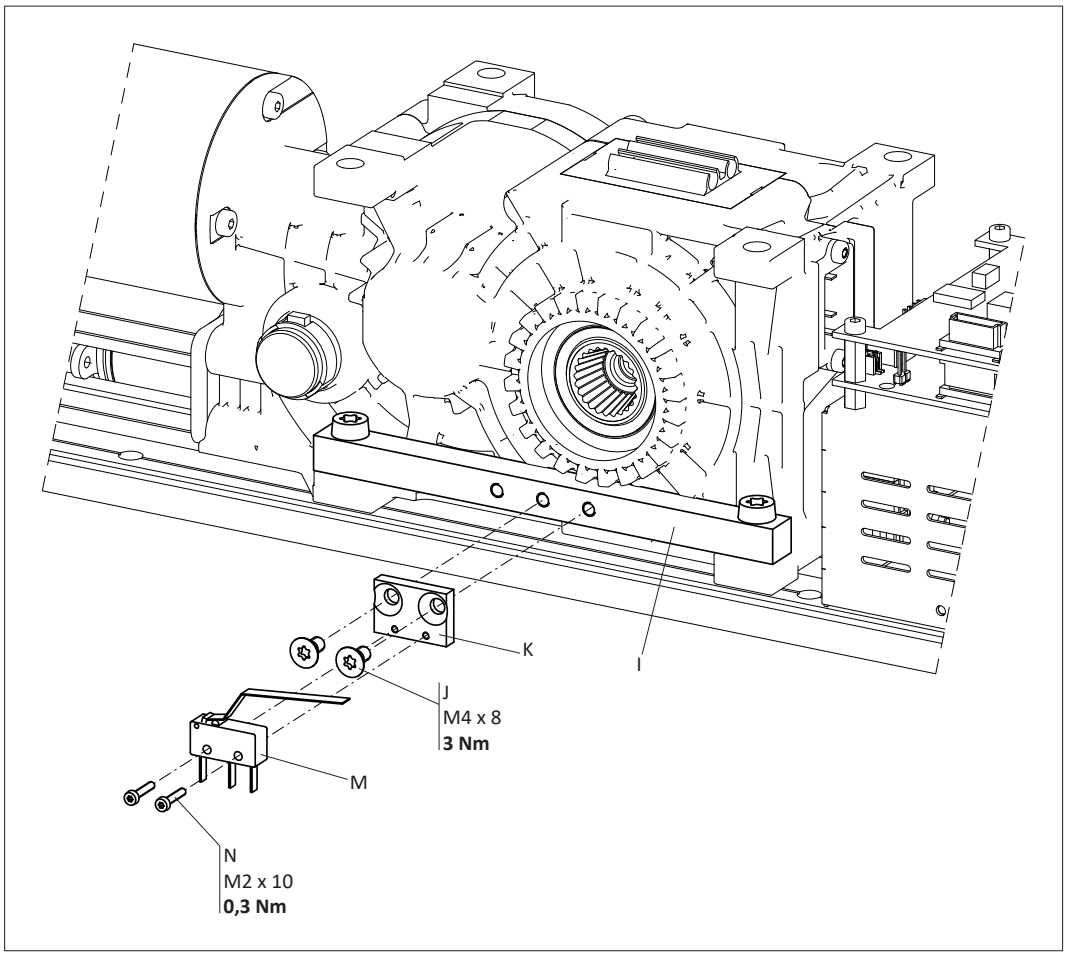
1.4.6 Microswitch

Procedure:

1. Fasten the adapter plate (K) to the switch support (I) using flat head screws (J) ⇨ Tightening moment 3 Nm. Use the two holes that are closer to the control unit.

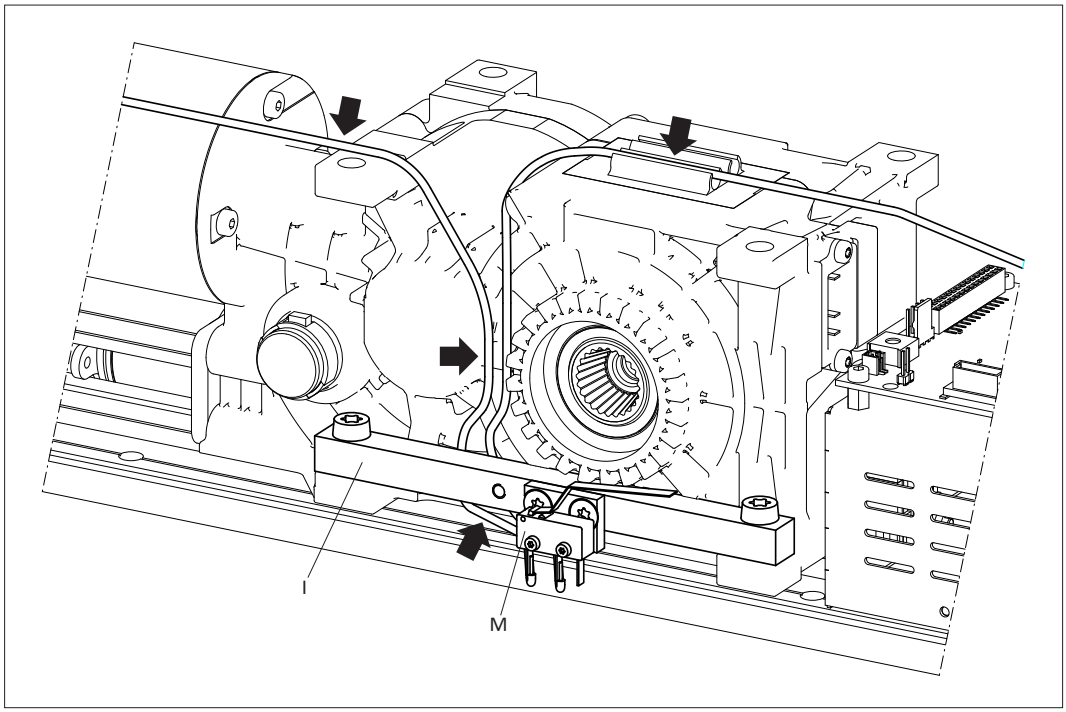
2. Attach the microswitch (M) to the adapter plate (K) using pan-head screws (N) ⇨ Tightening moment 3 Nm.

Attention:
The switch lever of the microswitch points in the direction of the control unit.



3. Feed the wires of the microswitch (M) between the housing of drive mechanism and the switch support (I). Pull one wire through the cable guide on the service cover. Pull the other wire over the motor to the mini relay.

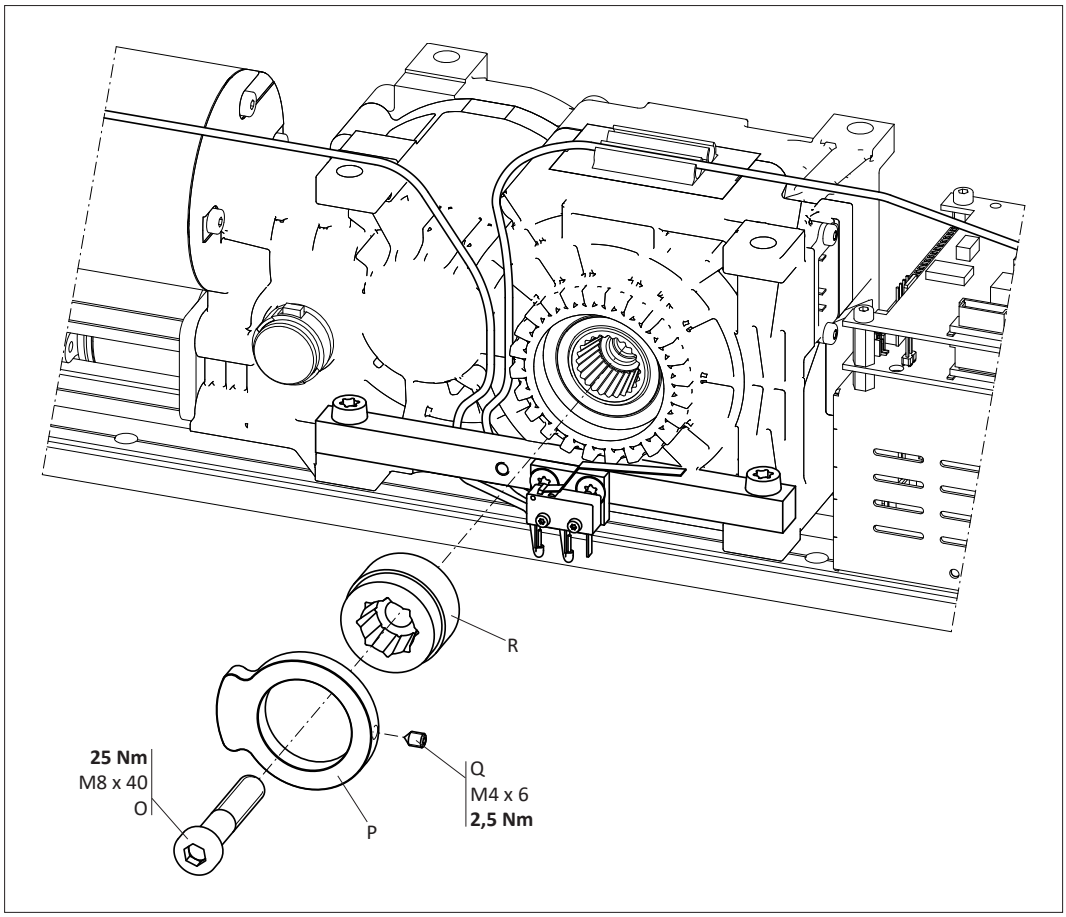
Attention:
Wires must not be damaged when mounting the drive mechanism covering!



1.4.7 Cam

Procedure:

1. Screw the set screw (Q) slightly into the cam (P) (but do not tighten it yet).
2. Push the cam (P) onto the clamping piece (R).
3. Fasten the clamping piece (R) to the output shaft using the pan-head screw (O) ⇨ Tightening moment 25 Nm.



1.4.8 Drive mechanism

Procedure:

1. Mount and commission the swing door drive mechanism(s) and the rod assemblies according to the mounting and operating instructions.
2. Set the system out of service.

1.4.9 Adjust the cam

Procedure:

1. Select operating mode OPEN with the program selector ⇨ and let the door leaf open.
2. Turn the cam (P) on the clamping piece (R) in the opening direction of the drive mechanism until the microswitch (M) switches.
3. Tighten set screw (Q) ⇨ Tightening moment 2,5 Nm.

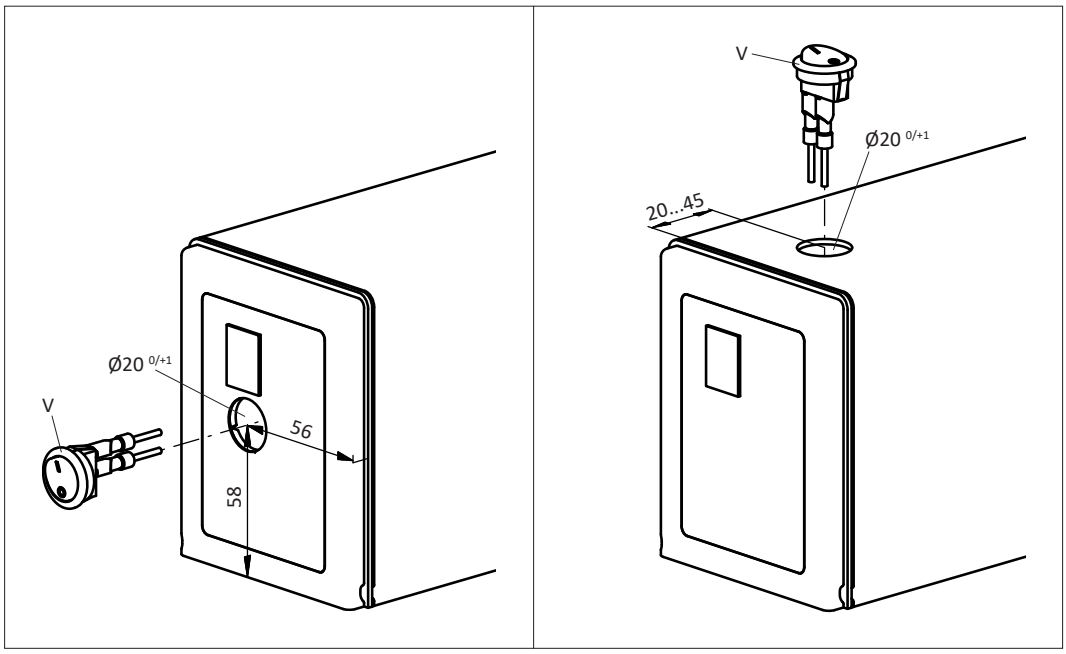
1.5 Switch PERMANENT OPENING

Note:
The switch PERMANENT OPENING (V) can be mounted either on the drive mechanism or externally.
The switch PERMANENT OPENING (V) can also be replaced by an element delivery by customer (permanent contact, rotary switch, key-operated selector switch).

1 leaf installation

- Mounting of the switch PERMANENT OPENING (V) either in the side cover or in the drive mechanism covering (drilling diameter 20 $^{0/+1}$ mm).
- Mounting of the switch PERMANENT OPENING (V) at any point outside the drive mechanism (drilling diameter 20 $^{0/+1}$ mm).

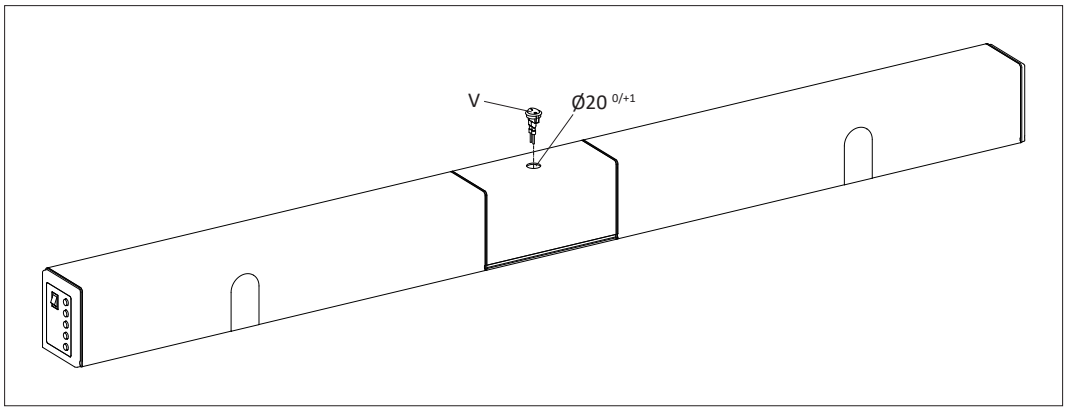
Note:
The cable length of the switch PERMANENT OPENING (V) is designed for mounting on the drive mechanism.
For external mounting, the cable length must be adapted accordingly (by customer).



2 leaves installation <u>with</u> mechanical closing sequence regulator

- Mounting of the switch PERMANENT OPENING (V) in the SECONDARY drive mechanism covering or in the intermediate covering (drilling diameter 20 $^{0/+1}$ mm).
- Mounting of the switch PERMANENT OPENING (V) at any point outside the drive mechanism (drilling diameter 20 $^{0/+1}$ mm).

Note:
The cable length of the switch PERMANENT OPENING (V) is designed for mounting in the intermediate covering.
For external mounting, the cable length must be adapted accordingly (by customer).



2 leaves installation <u>without</u> mechanical closing sequence regulator

- Mounting of the switch PERMANENT OPENING (V) in one of the two drive mechanism coverings or in the intermediate covering (drilling diameter 20 $^{0/+1}$ mm).
- Mounting of the switch PERMANENT OPENING (V) at any point outside the drive mechanisms (drilling diameter 20 $^{0/+1}$ mm).

1.6 Wiring

Attention:
The installation must be disconnected from the mains supply during the entire wiring process!

1 leaf installation
- see wiring diagram E4-0141-713, sheet no. 33-1 (in the appendix)

2 leaves installation <u>with</u> mechanical closing sequence regulator
- Wiring holding magnet/open position transmitter ⇨ SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 35 (in the appendix)
- Wiring switch PERMANENT OPENING ⇨ SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 35 (in the appendix)

2 leaves installation <u>without</u> mechanical closing sequence regulator
- Wiring holding magnets ⇨ MAIN and SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 36 and 37 (in the appendix)
- Wiring open position transmitter ⇨ SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 37 (in the appendix)
- Wiring switch PERMANENT OPENING ⇨ SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 36 (in the appendix)
- Wiring of control cable between MAIN and SECONDARY drive mechanism
  see wiring diagram E4-0141-713, sheet no. 36 and 37 (W364) (in the appendix)
  Note:
  The control cable is not included in the set
  ⇨ delivery by customer, cross-section ≥ 0,5 mm^2

Attention:
The operating mode PERMANENT OPENING with holding brakes can only be switched on via the supplied switch PERMANENT OPENING.
When the open position is reached, the drive mechanisms are switched to manual operation (the holding brakes keeps the door leaves open).
When the operating mode PERMANENT OPENING is cancelled, the door leaves close by means of spring force.

1.7 Appendix

The following documents are added as an appendix to this instructions:

Wiring diagram E4-0141-713

Electrical documentation

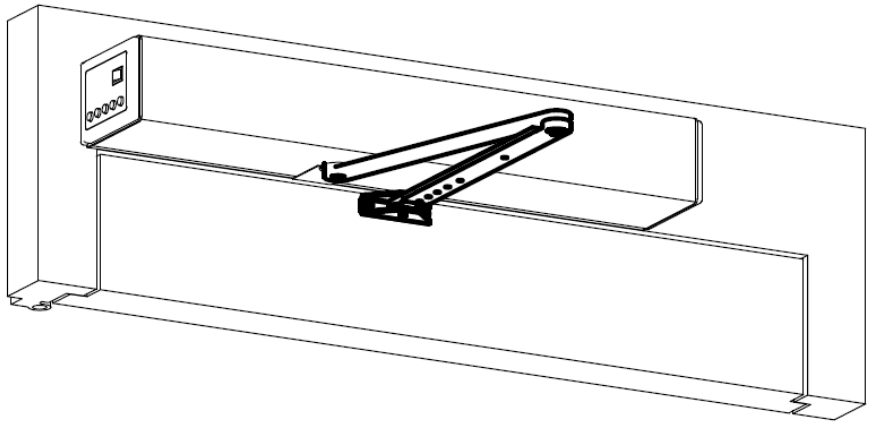
Gilgen Door Systems AG
Freiburgstrasse 34
CH-3150 Schwarzenburg

Tel. +41 (0)31 734 41 11
info@gilgendoorsystems.com
www.gilgendoorsystems.com

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Standard diagram no. E4-0141-713 f

- Overview
- Options
- Variants



				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Cover sheet
1

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 1

Table of contents

Id.	Revision	Date	Name			
				Designed by	03.12.2021	bdg
				Reviewed by	15.09.2023	bdg
				Approved by	15.09.2023	ha

Standard diagram

GILGEN DOOR SYSTEMS

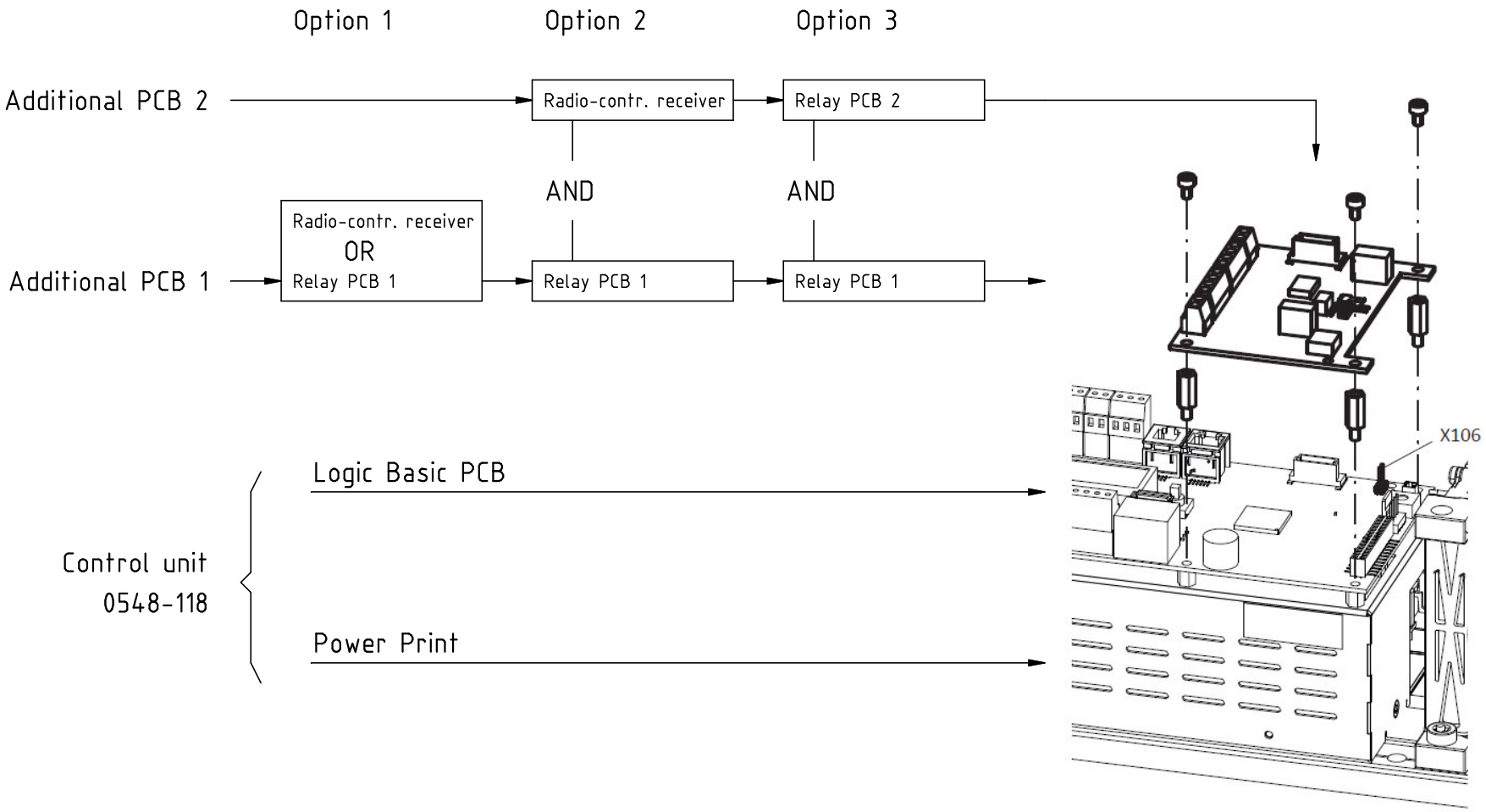
Drive mechanism for swing door FD 20
Table of contents
2

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 2

Control unit - Overview

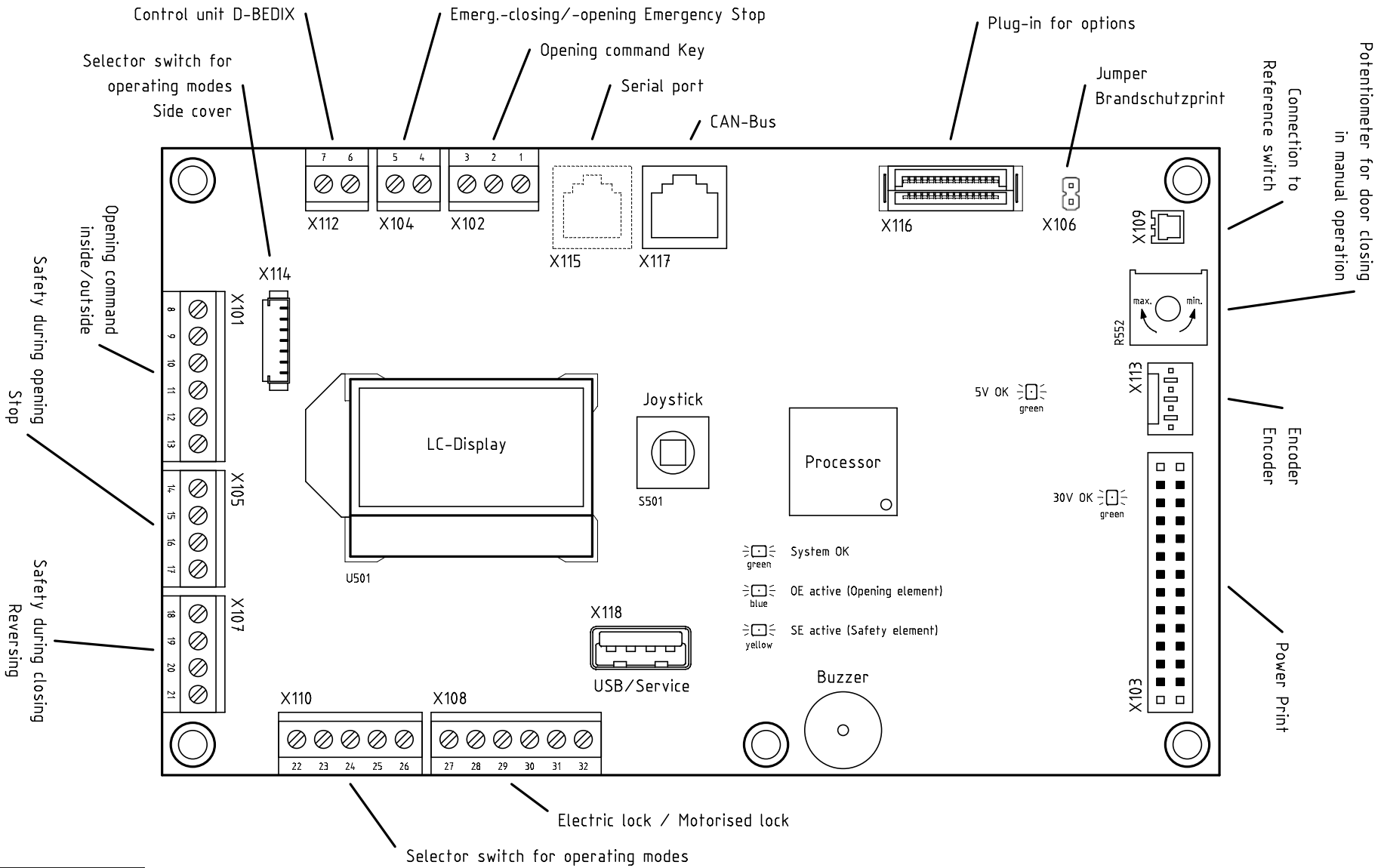


				Designed by	03.12.2021 bdg	Standard diagram	Drive mechanism for swing door FD 20
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023 bdg		Overview
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023 ha		5
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Overview Control unit		Sheet no.
Origin: NORM0141-724.pro Substitution: NORM0141.pro-713d	E4-0141-713 f	5

Logic Basic PCB - Layout



				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Control unit
11

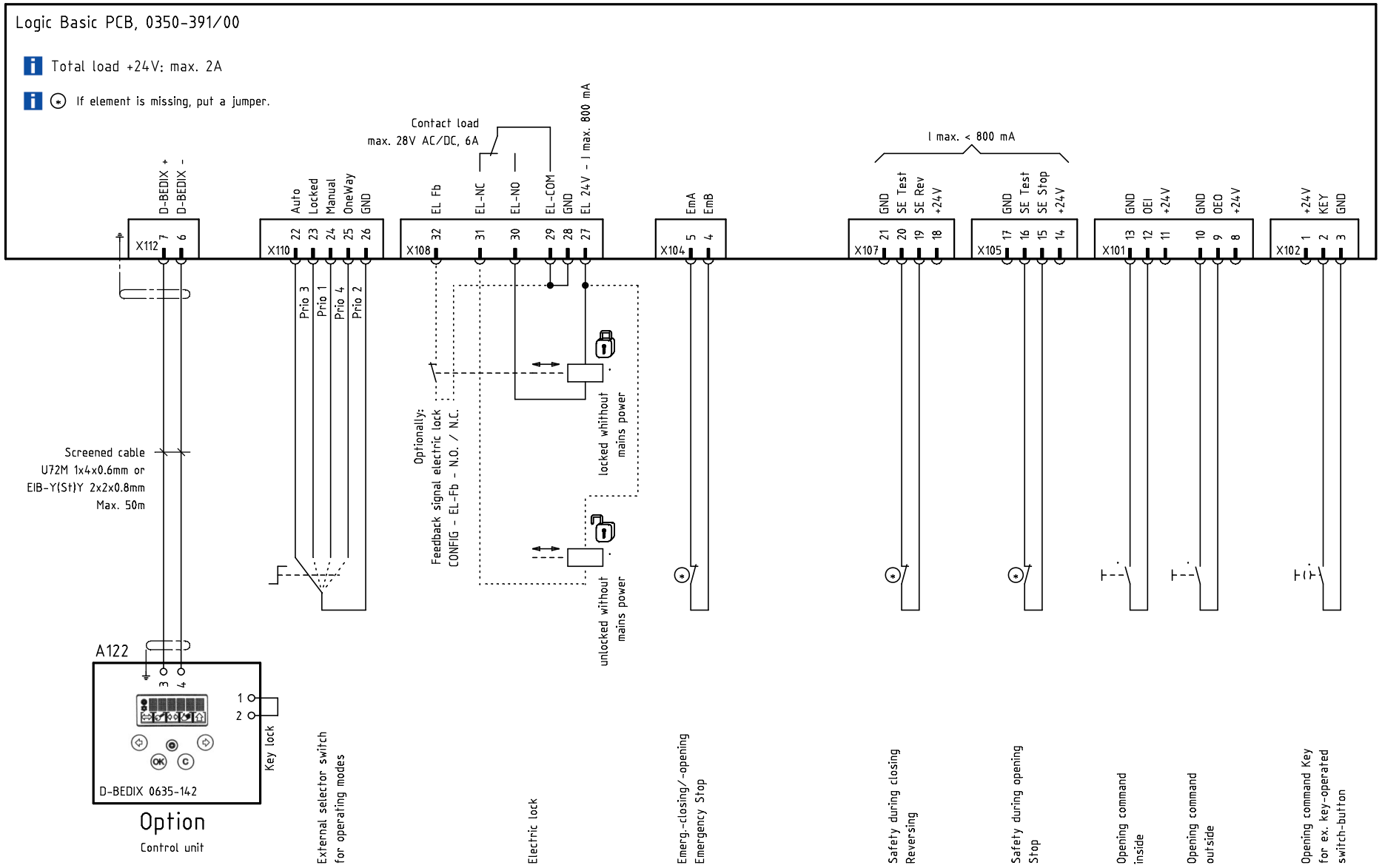
Layout, Logic Basic PCB

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 12

11



				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Control unit
12

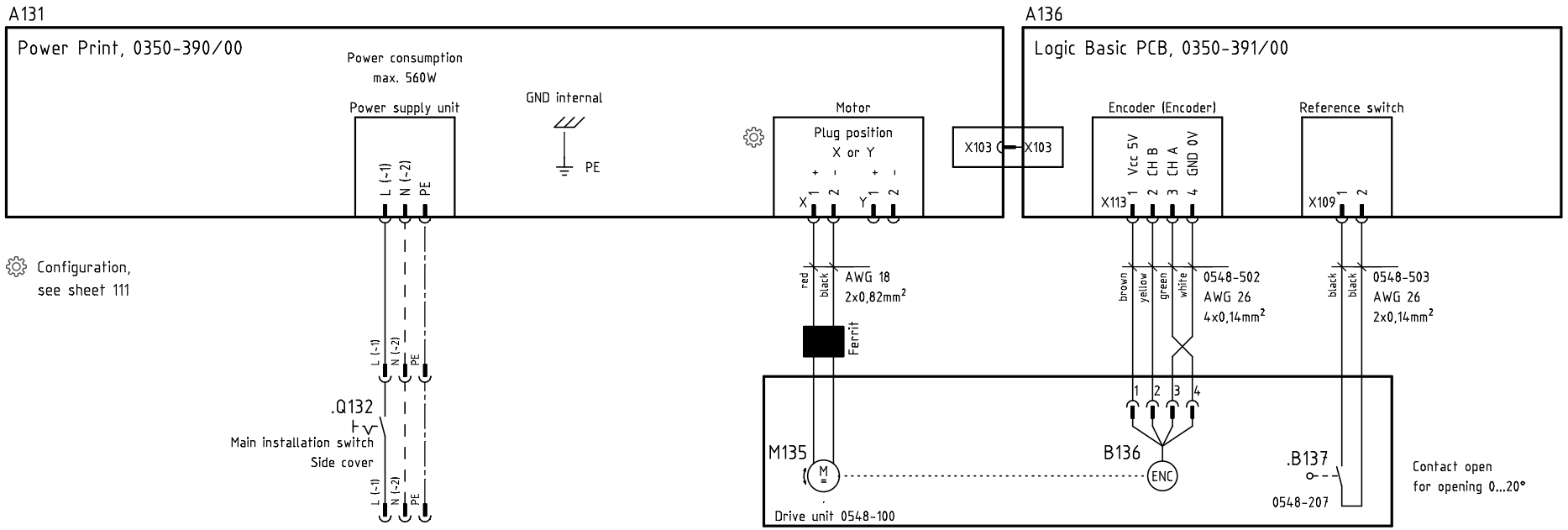
Overview connection terminals

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 11 13

12



Power supply 230 VAC (+10/-15 %), 50 Hz

Supplied by customer with:
- Autom. line cut-out switch FI 30mA
- Fuse 13A

				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Control unit
13

Power supply, Drive unit

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

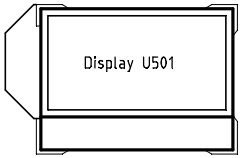
E4-0141-713 f

Sheet no. 12 14

13

A136

Logic Basic PCB, 0350-391/00



Joystick S501

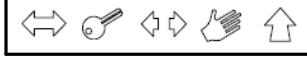
for Settings (PARAMETER, KONFIG)

X114

-W141

A141

Program switch
Side cover



Automatic (Auto)
Night (Locked)
Open
Manual (Manual)
Exit (One Way)

internal

external

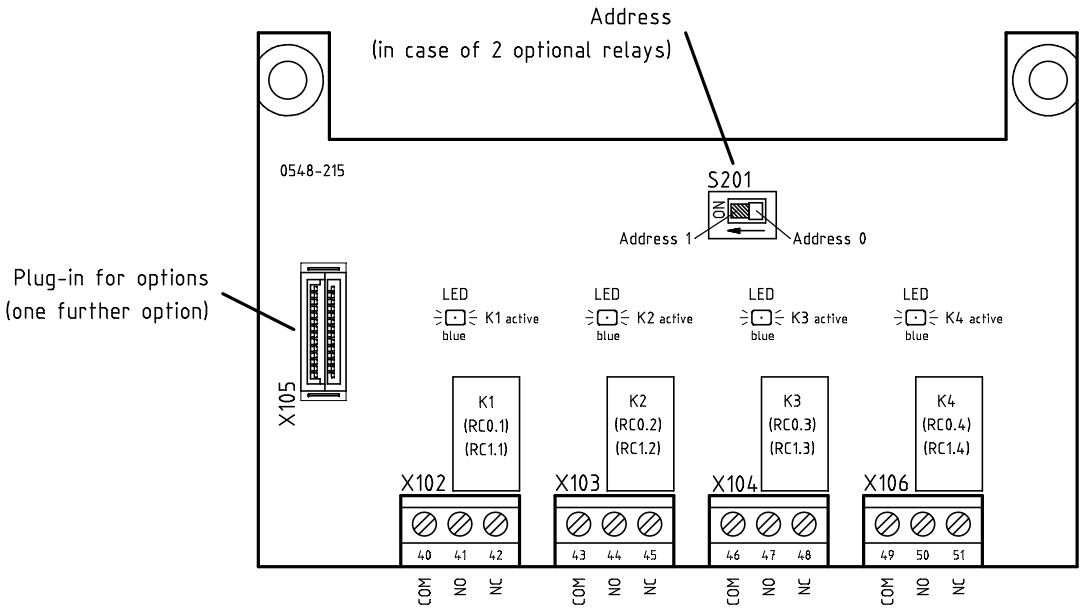
				Designed by	03.12.2021	bdg	Standard diagram	Drive mechanism for swing door FD 20	Operating elements internal
				Reviewed by	15.09.2023	bdg		Control unit	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha		14	Origin: NORM0141-724.pro
Id.	Revision	Date	Name						Substitution: NORM0141.pro-713d

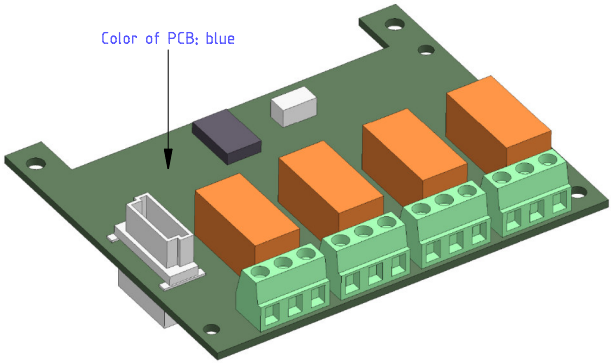
GILGEN DOOR SYSTEMS

E4-0141-713 f

Sheet no. 13 14

Relay PCB - Overview





				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Additional PCB
Relay PCB

Layout

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 22

21

A136

Logic Basic PCB, 0350-391/00

Plug-in for options

A223

Relay PCB 1, 0548-215

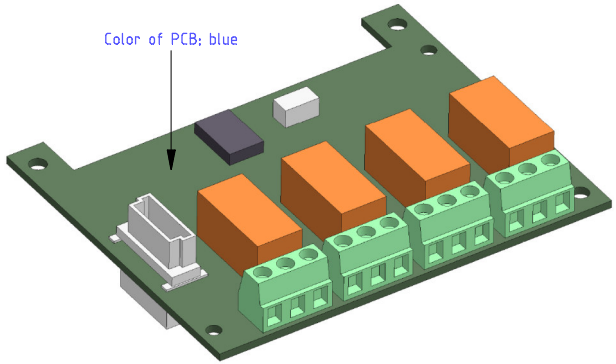
S201

ON

OFF = Address 0

* Contact load in case of 30VDC; 5A ohmic

Output	COM	NO	NC
K1 - RC0.1	40	41	42
K2 - RC0.2	43	44	45
K3 - RC0.3	46	47	48
K4 - RC0.4	49	50	51



internal

external

Configurable, Factory default:

CONFIG - RC0.1 = CLOSED
CONFIG - RC0.2 = OPEN
CONFIG - RC0.3 = ERROR
CONFIG - RC0.4 = GONG

see also instruction FD 20, 0548-990/0*

W224
U72
3x4xø0,8mm

white 1	blue 1	turquoise 1	violet 1	white 2	orange 2	turquoise 2	violet 2	white 3	green 3	turquoise 3	violet 3

System control

suppl. by custom.

Feedback signal door closed

Feedback signal door open

Feedback signal Error

Impuls Gong

				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Additional PCB
Relay PCB

Relay PCB 1 (Address 0)

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 22

A223

Relay PCB 1, 0548-215

Plug-in for options

A233

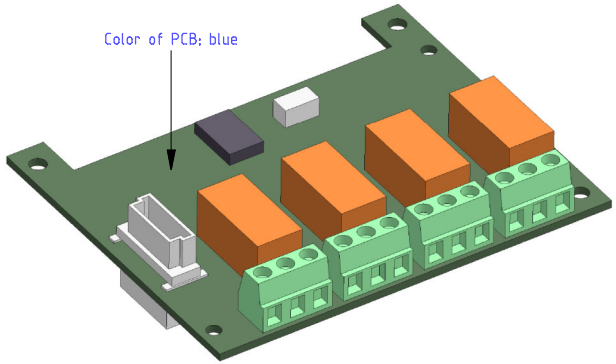
Relay PCB 2, 0548-215

S201

ON = Address 1

* Contact load in case of 30VDC; 5A ohmic

Output	COM	NO	NC
K1 - RC1.1	40	41	42
K2 - RC1.2	43	44	45
K3 - RC1.3	46	47	48
K4 - RC1.4	49	50	51



internal

external

Configurable, Factory default:

CONFIG - RC1.1 = OPENING
CONFIG - RC1.2 = CLOSING
CONFIG - RC1.3 = PSAUTO
CONFIG - RC1.4 = LOCKED

see also instruction FD 20, 0548-990/0*

W234
U72
3x4xø0,8mm

white 1	blue 1	turquoise 1	violet 1	white 2	orange 2	turquoise 2	violet 2	white 3	green 3	turquoise 3	violet 3

System control

suppl. by custom.

Feedback signal door in motion open

Feedback signal door in motion close

Feedback signal Operating mode Automatic

Feedback signal door locked

				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Additional PCB
Relay PCB

Relay PCB 2 (Address 1)

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

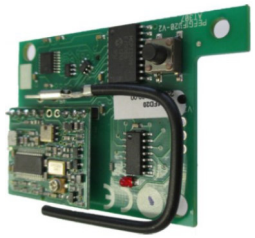
E4-0141-713 f

Sheet no. 22 | 23

A243

see sheet 5

Radio-contr. receiver, 0548-216



Plug-in for options

Opening command
Key

Antenna

internal
external

① Options Operating elements

Hand-held radio transmitter
GFU 4

Hand-held radio transmitter
GFU 2

Code switch

				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Additional PCB
Radio-contr. receiver

Radio-contr. receiver

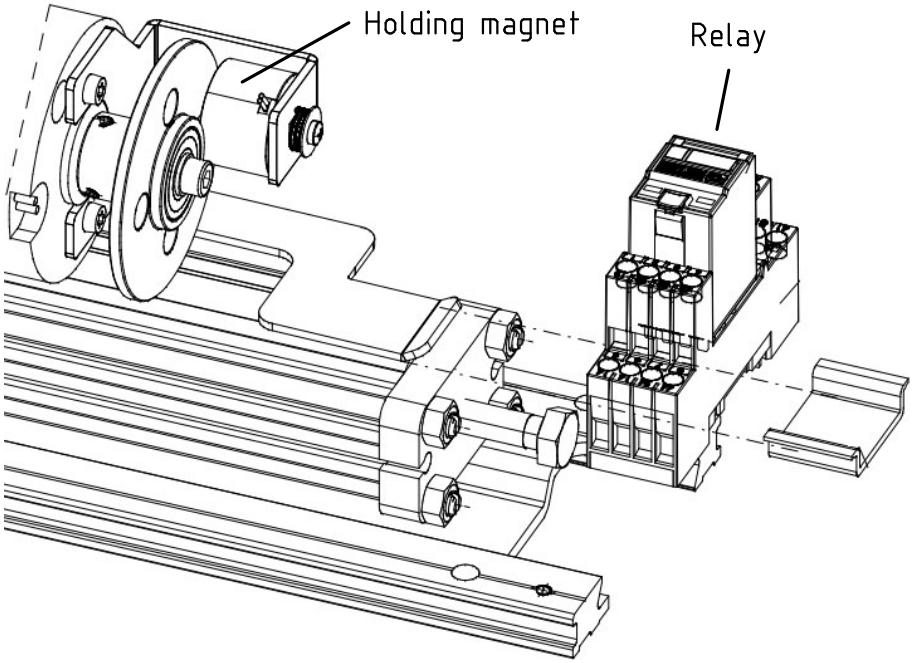
Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

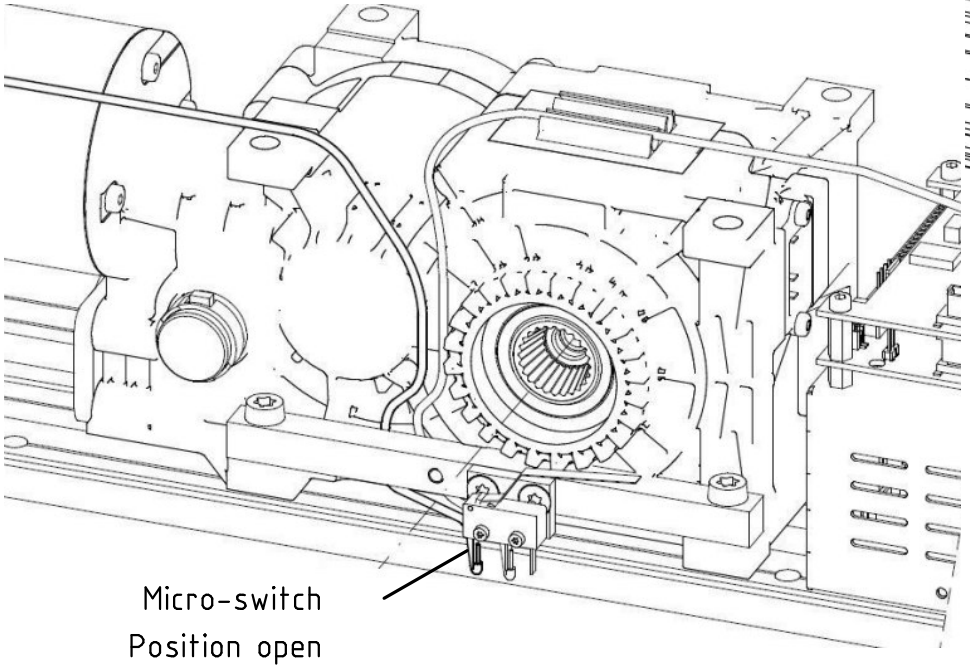
E4-0141-713 f

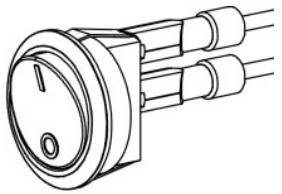
Sheet no. 24

Holding brake - Overview

see also
- instruction Holding brake, 0548-992/7*
- instruction FD 20, 0548-990/0*







Flip-switch

				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Holding brake No. 0548-182
Overview

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Holding brake - Instructions

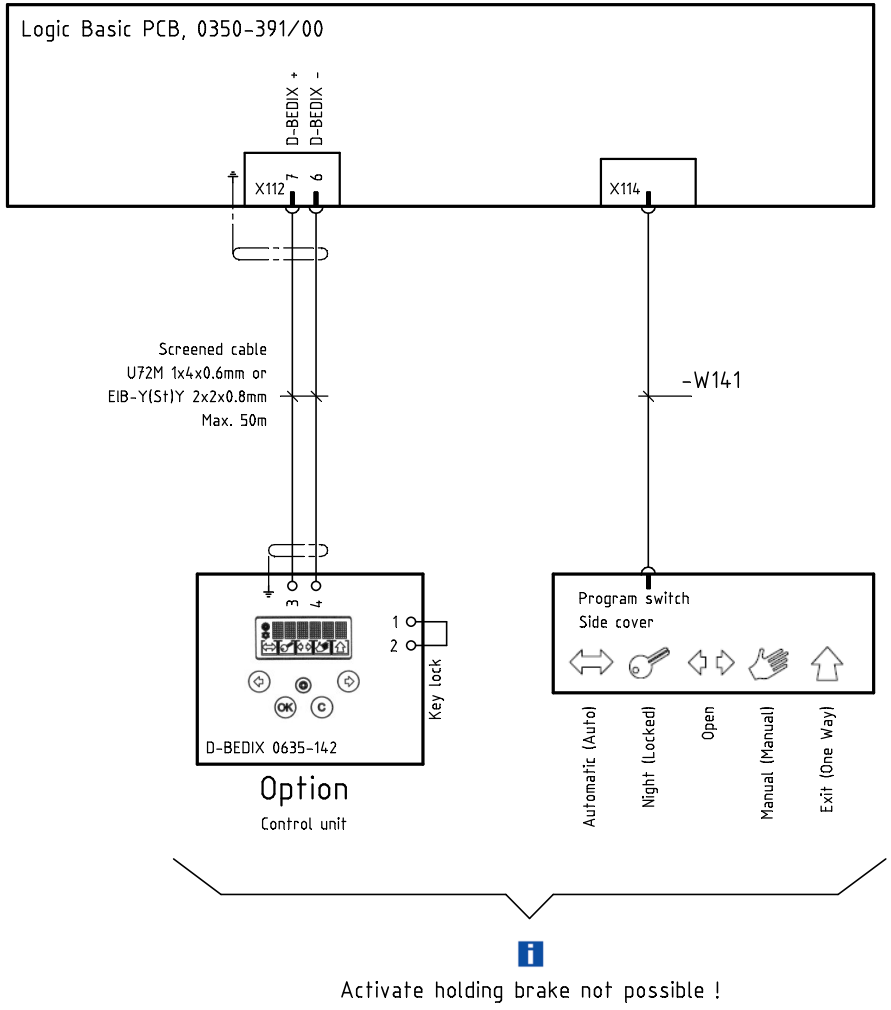


Diagram Double door (2-winged, Main - Secondary)
see sheet 61

				Designed by	03.12.2021	bdg	Standard diagram	Drive mechanism for swing door FD 20	Instructions
				Reviewed by	15.09.2023	bdg		Options	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha		Holding brake No. 0548-182	Origin: NORM0141-724.pro
Id.	Revision	Date	Name					Overview	Substitution: NORM0141.pro-713d

GILGEN DOOR SYSTEMS

E4-0141-713 f

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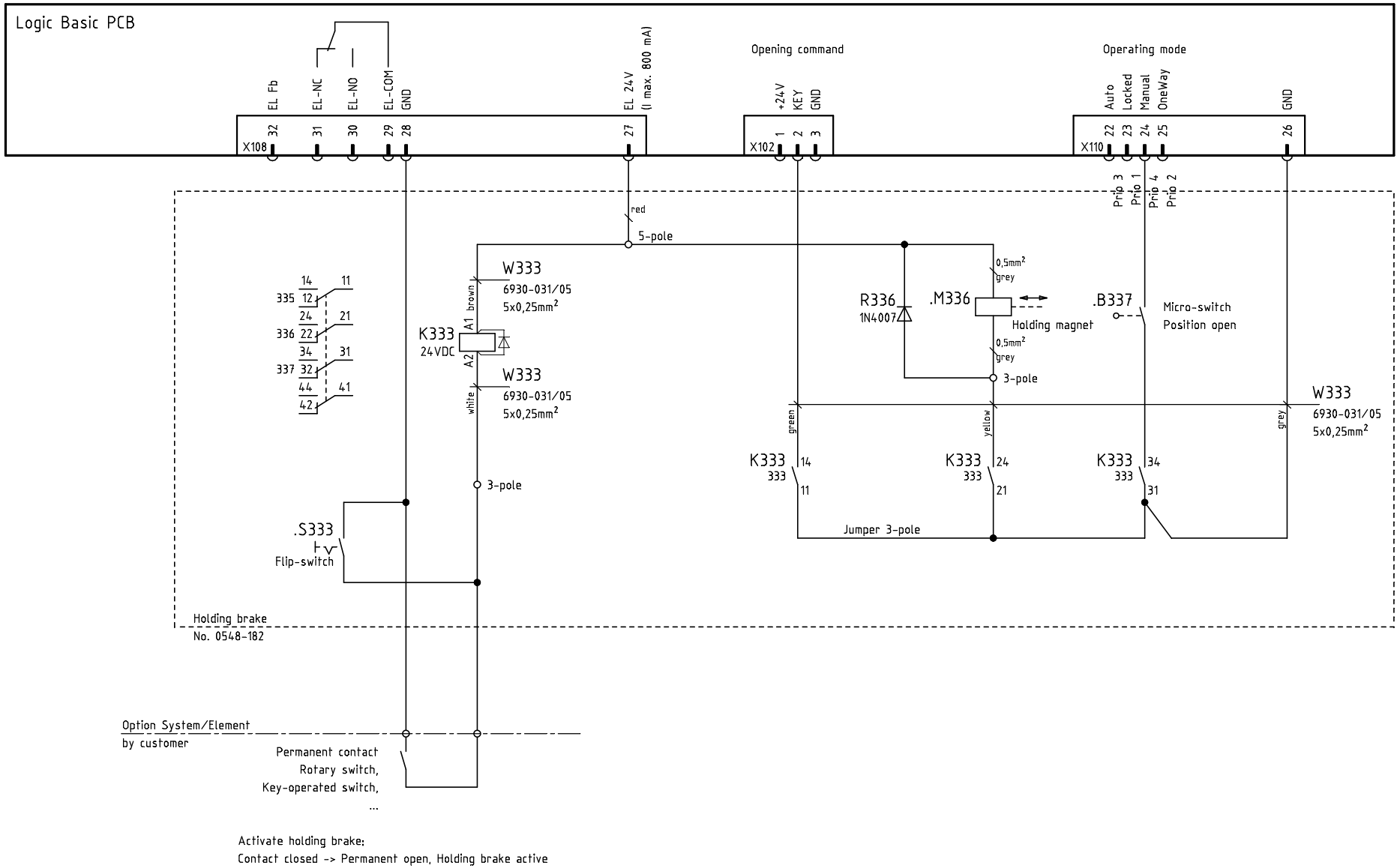
1-winged



				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Holding brake No. 0548-182
1-winged

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

1-winged

Sheet no. 33

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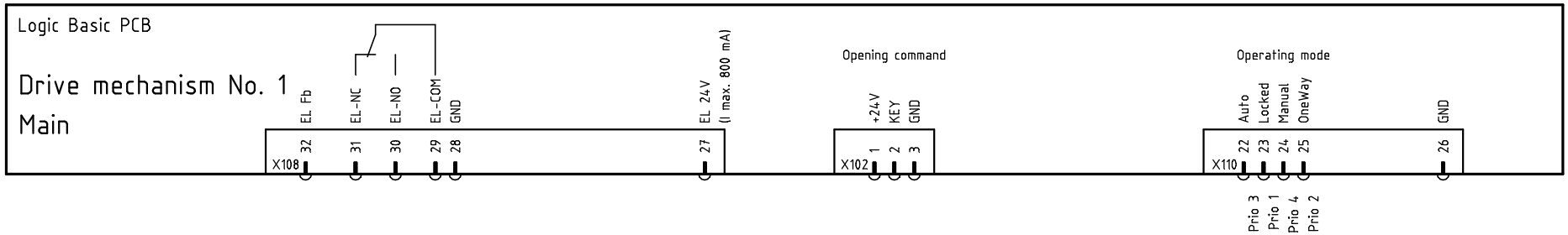
2-winged, WITH mechanical closing sequence regulator



Holding brake -> Not connected

				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Holding brake No. 0548-182
2-winged, Option 1

Drive mechanism 1, Main

2-winged-V1

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 35

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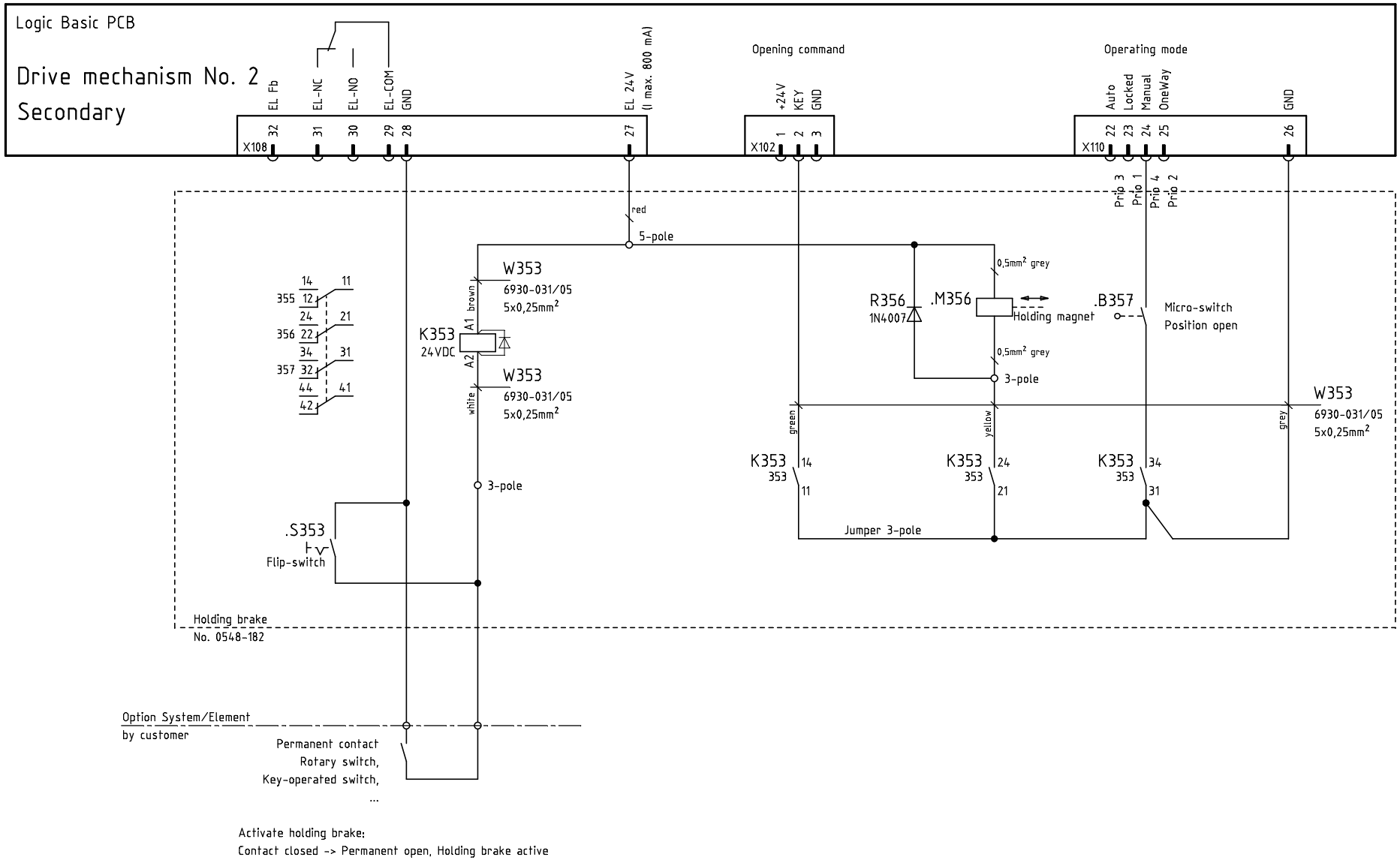
2-winged, WITH mechanical closing sequence regulator



				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Holding brake No. 0548-182
2-winged, Option 1

Drive mechanism 2, Secondary

2-winged-V1

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

Sheet no. 34

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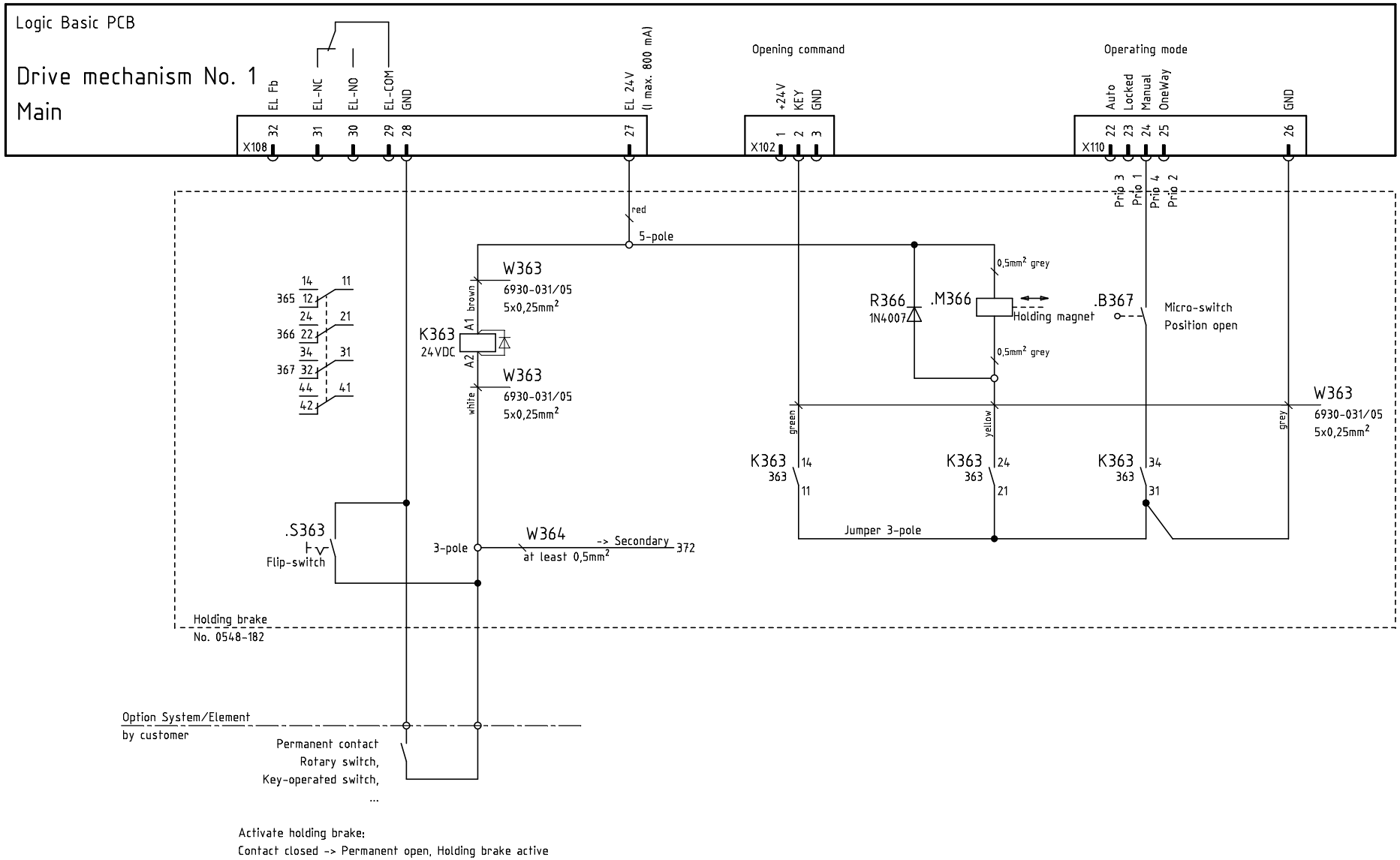
2-winged, WITHOUT mechanical closing sequence regulator



				Designed by	03.12.2021	bdg	Standard diagram
				Reviewed by	15.09.2023	bdg	
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Holding brake No. 0548-182
2-winged, Option 2

Drive mechanism 1, Main

2-winged-V2

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 37

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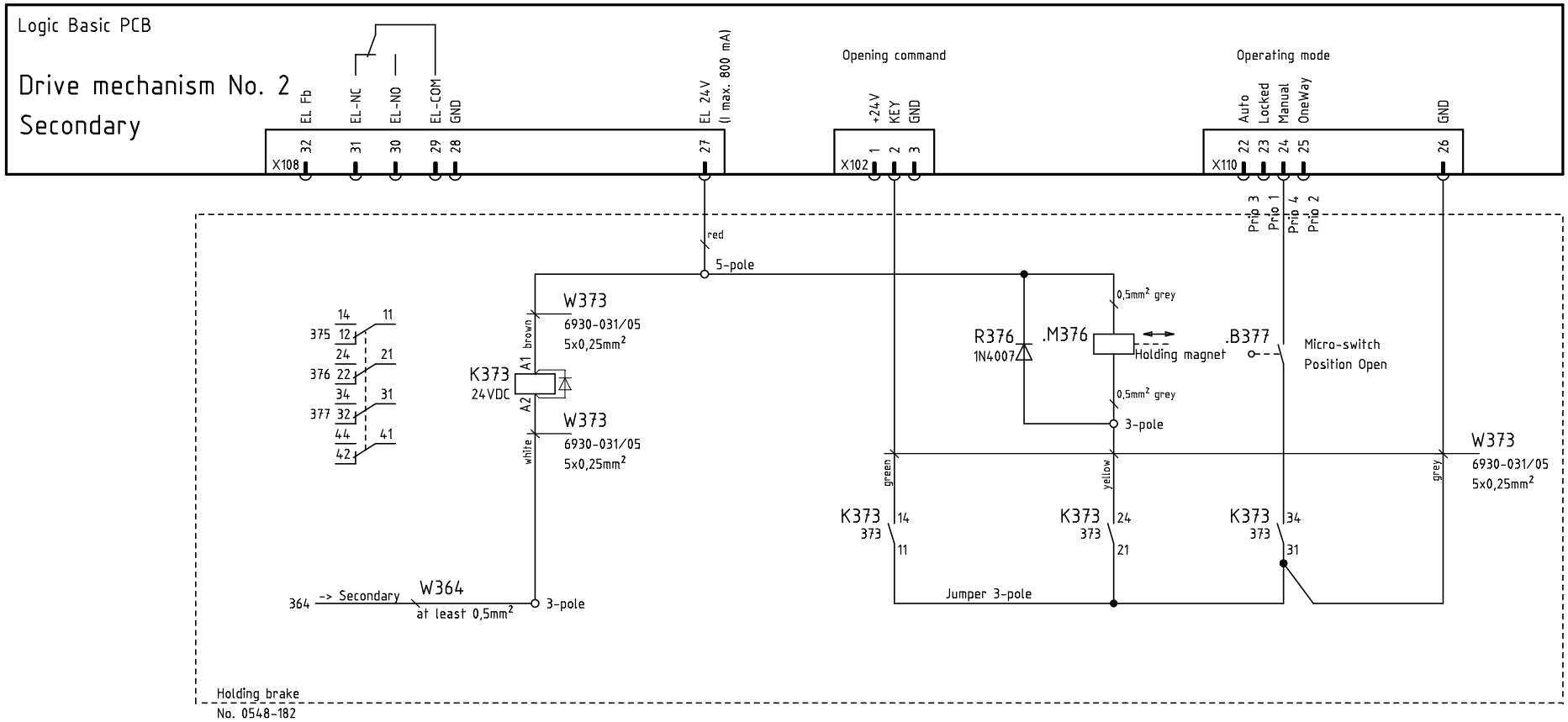
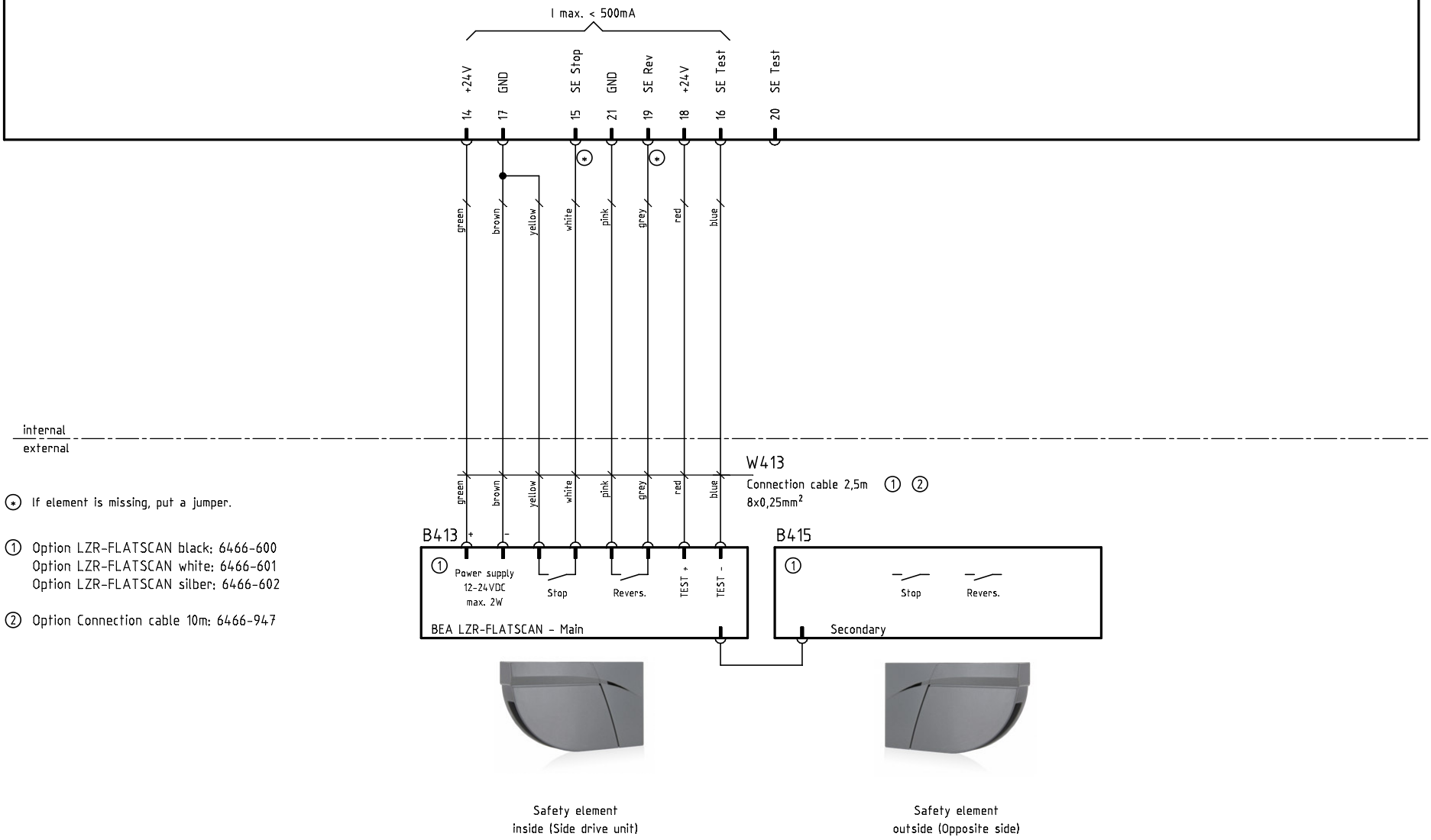
2-winged, WITHOUT mechanical closing sequence regulator



				Designed by	03.12.2021	bdg	Standard diagram	Drive mechanism for swing door FD 20	Drive mechanism 2, Secondary	2-winged-V2	Sheet no.
				Reviewed by	15.09.2023	bdg		Options			36
f	Nr. 15649	15.09.2023	bdg	Approved by	15.09.2023	ha		Holding brake No. 0548-182	Origin: NORM0141-724.pro	E4-0141-713 f	37
Id.	Revision	Date	Name					2-winged, Option 2	Substitution: NORM0141.pro-713d		

GILGEN DOOR SYSTEMS

Logic Basic PCB, 0350-391/00



⊕ If element is missing, put a jumper.

① Option LZR-FLATSCAN black: 6466-600
Option LZR-FLATSCAN white: 6466-601
Option LZR-FLATSCAN silber: 6466-602

② Option Connection cable 10m: 6466-947

Safety element
inside (Side drive unit)

Safety element
outside (Opposite side)

				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

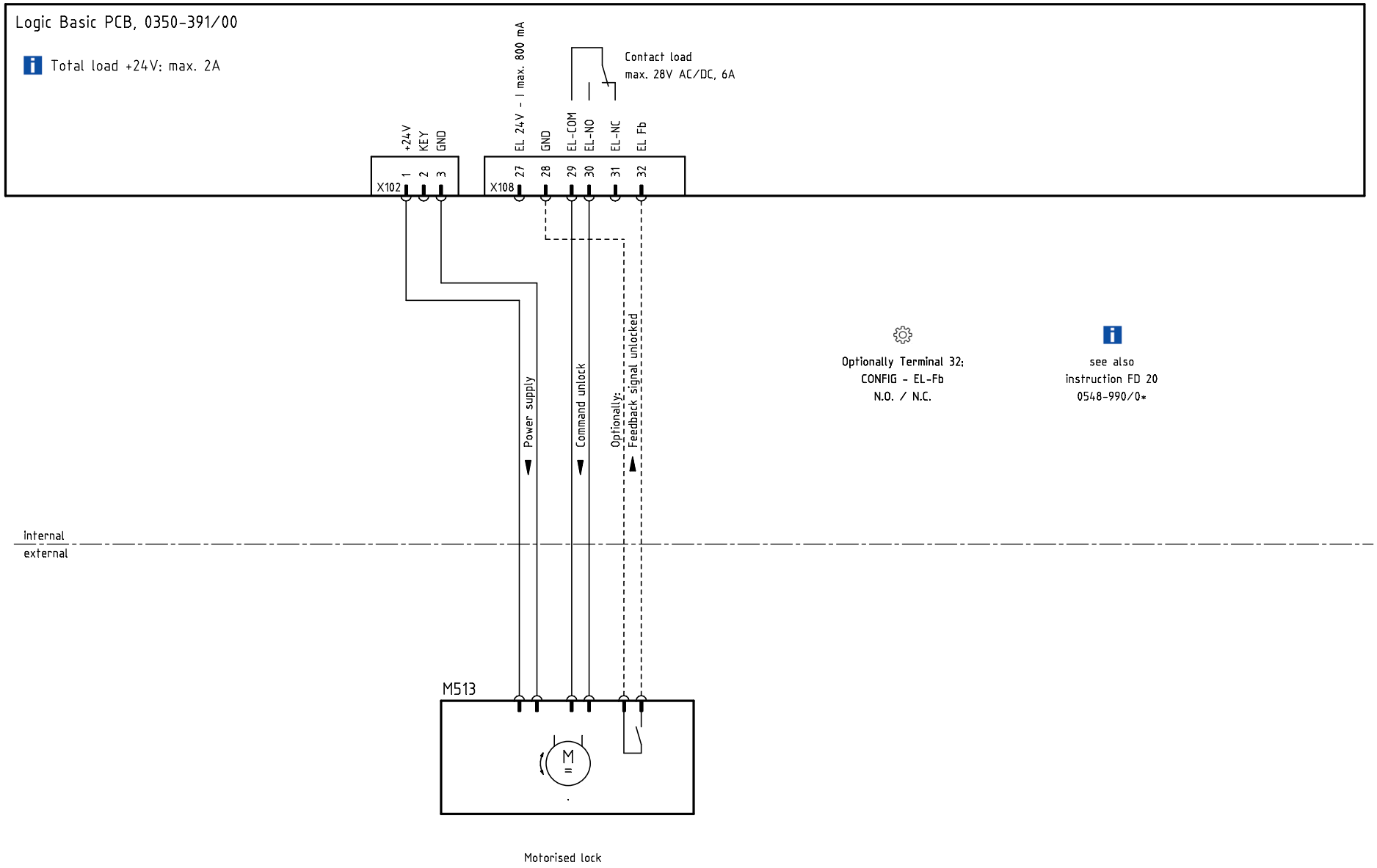
Drive mechanism for swing door FD 20
Options
Safety elements
41

BEA LZR-Flatscan

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

E4-0141-713 f

Sheet no. 41



				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Options
Locking
51

Motorised lock Example

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

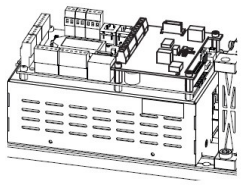
E4-0141-713 f

Sheet no. 51

Control unit

Drive mechanism No. 1

Main

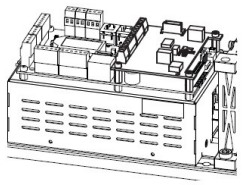


CAN

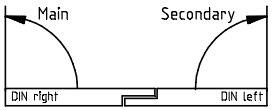
Control unit

Drive mechanism No. 2

Secondary



CAN



Settings Main

PARAMTER	TOEx TKey TDelay	0...60 s 0...180 s 0,0...4,0 s	Opening period for 1-wing operation Opening period for 1-wing operation Starting retard (T-Delay) for Main
DOUBLE DOOR	DoubleD AcSeq	MastrA 0..110°	see instruction FD 20

Settings Secondary

PARAMTER	TOEx TKey TDelay	0...60 s 0...180 s 0,0...4,0 s	Opening period for 2-wing operation Opening period for 2-wing operation Starting retard (T-Delay) for Secondary
DOUBLE DOOR	DoubleD AoSeq	SecondaryA 0..110°	see instruction FD 20

Function Main

Opening command Key/OEI/OEO	Only Main open
Selector switch for operating modes (Program switch)	Operating mode with highest priority is active, either pre-selection Main or pre-selection Secondary
Emerg.-closing/-opening/Emergency Stop (Terminals 4-5)	Operates on Main and on Secondary dependend of [CONFIG]- [EMY-IN]

Function Secondary

Opening command Key/OEI/OEO	Main and Secondary open
Selector switch for operating modes (Program switch)	Operating mode with highest priority is active, either pre-selection Main or pre-selection Secondary
Emerg.-closing/-opening/Emergency Stop (Terminals 4-5)	Operates only on Secondary

				Designed by	03.12.2021	bdg	Standard diagram
f	Nr. 15649	15.09.2023	bdg	Reviewed by	15.09.2023	bdg	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha	
Id.	Revision	Date	Name				

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Variants
Double door
Closing sequence Main - Secondary

Settings, Function

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

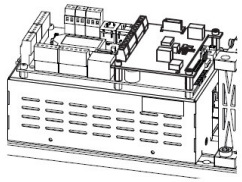
E4-0141-713 f

Sheet no. 61

Control unit

Drive mechanism No. 1

Side A

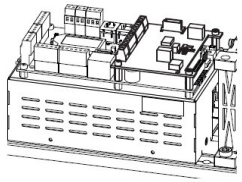


CAN

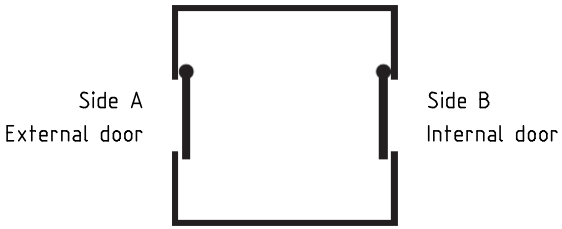
Control unit

Drive mechanism No. 2

Side B



CAN



Function			
A: Door status	B: Door status	A: Key / OEO / OEI	B: Key / OEO / OEI
closed	closed	active	active
open	closed	active	inactive
closed	open	inactive	active

Settings Side A

DOUBLE DOOR	InterL	SideA	Interlock-system - External door
	ILAuto	Active	active on Operating mode Automatic (Auto)
	ILExit	Active	active on Operating mode Exit (One Way)
	ILNigt	Active	active on Operating mode Night (Locked)
			... see instruction FD 20

Settings Side B

DOUBLE DOOR	InterL	SideB	Interlock-system - Internal door
	ILAuto	Active	active on Operating mode Automatic (Auto)
	ILExit	Active	active on Operating mode Exit (One Way)
	ILNigt	Active	active on Operating mode Night (Locked)
			... see instruction FD 20

Id.	Revision	Date	Name			
f	Nr. 15649	15.09.2023	bdg	Designed by	03.12.2021	bdg
e	Nr. 15338	06.01.2022	bdg	Reviewed by	15.09.2023	bdg
				Approved by	15.09.2023	ha

Standard diagram

GILGEN DOOR SYSTEMS

Drive mechanism for swing door FD 20
Variants
Interlock-system
Side A - Side B

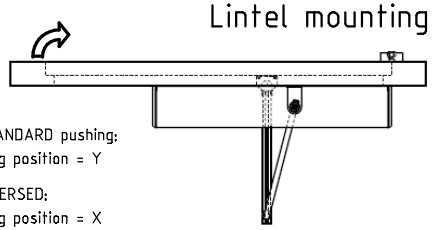
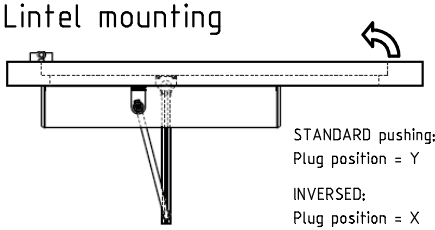
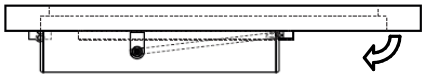
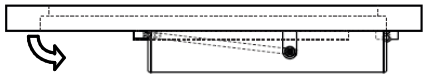
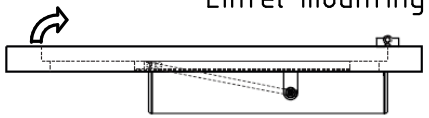
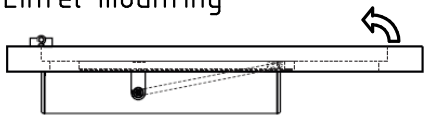
Settings, Function

Origin: NORM0141-724.pro
Substitution: NORM0141.pro-713d

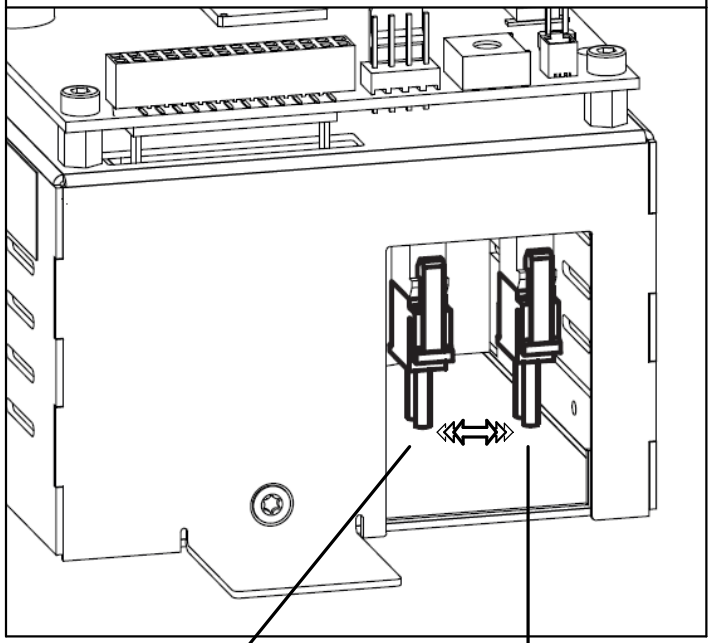
E4-0141-713 f

Sheet no. 62

Position of motor plug in function of the assembly version

DIN left	DIN right
Lintel mounting  STANDARD pushing: Plug position = Y INVERSED: Plug position = X	**Lintel mounting**  STANDARD pushing: Plug position = Y INVERSED: Plug position = X
Lintel mounting  STANDARD pulling: Plug position = X INVERSED: Plug position = Y	**Lintel mounting**  STANDARD pulling: Plug position = X INVERSED: Plug position = Y
Lintel mounting  STANDARD pushing: Plug position = Y INVERSED : Plug position = X	**Lintel mounting**  STANDARD pushing: Plug position = Y INVERSED: Plug position = X
Wing mounting  STANDARD pushing: Plug position = Y INVERSED: Plug position = X	**Wing mounting**  STANDARD pushing: Plug position = Y INVERSED: Plug position = X

Positions of plug:



X
STANDARD pulling,
INVERSED pushing

Y
STANDARD pushing,
INVERSED pulling

				Designed by	03.12.2021	bdg	Standard diagram	Drive mechanism for swing door FD 20	Position Motor connector
				Reviewed by	15.09.2023	bdg		Appendix	
e	Nr. 15338	06.01.2022	bdg	Approved by	15.09.2023	ha		111	Origin: NORM0141-724.pro
Id.	Revision	Date	Name						Substitution: NORM0141.pro-713d

GILGEN DOOR SYSTEMS

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