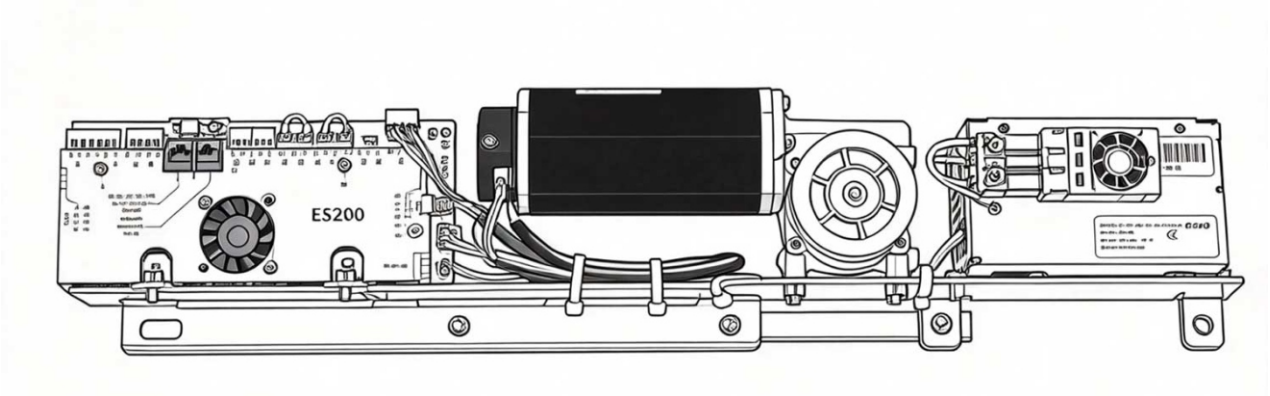
cÃesAr

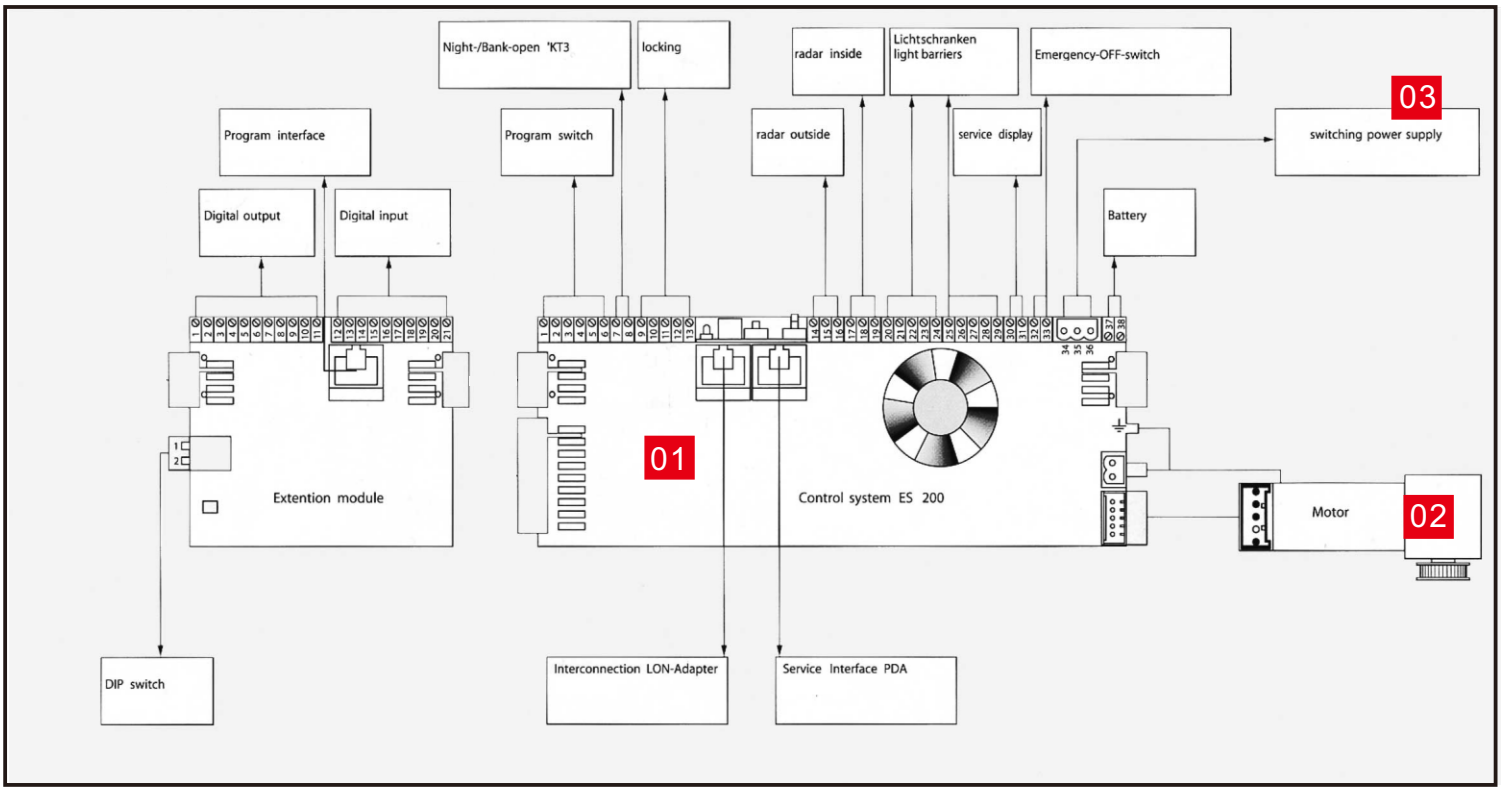
SLIDING DOOR DRIVE UNIT

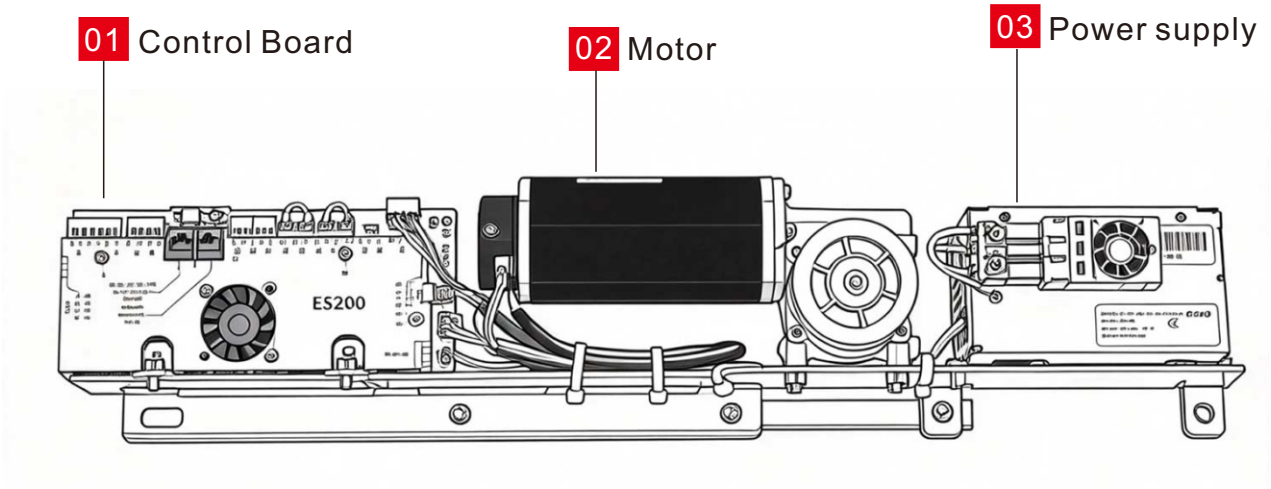
ES 200

Operating Instructions



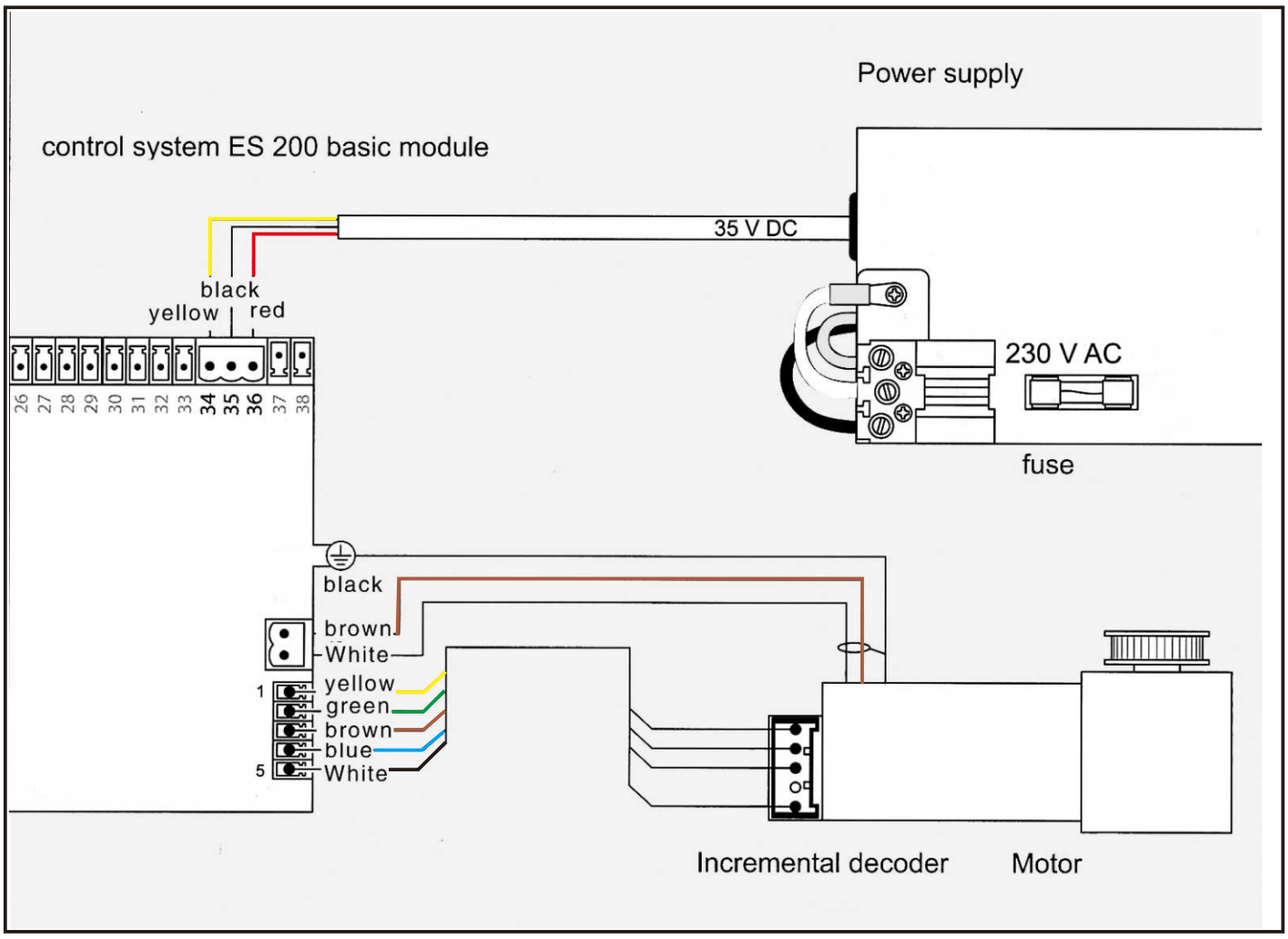
Control Assembly Wiring Overview



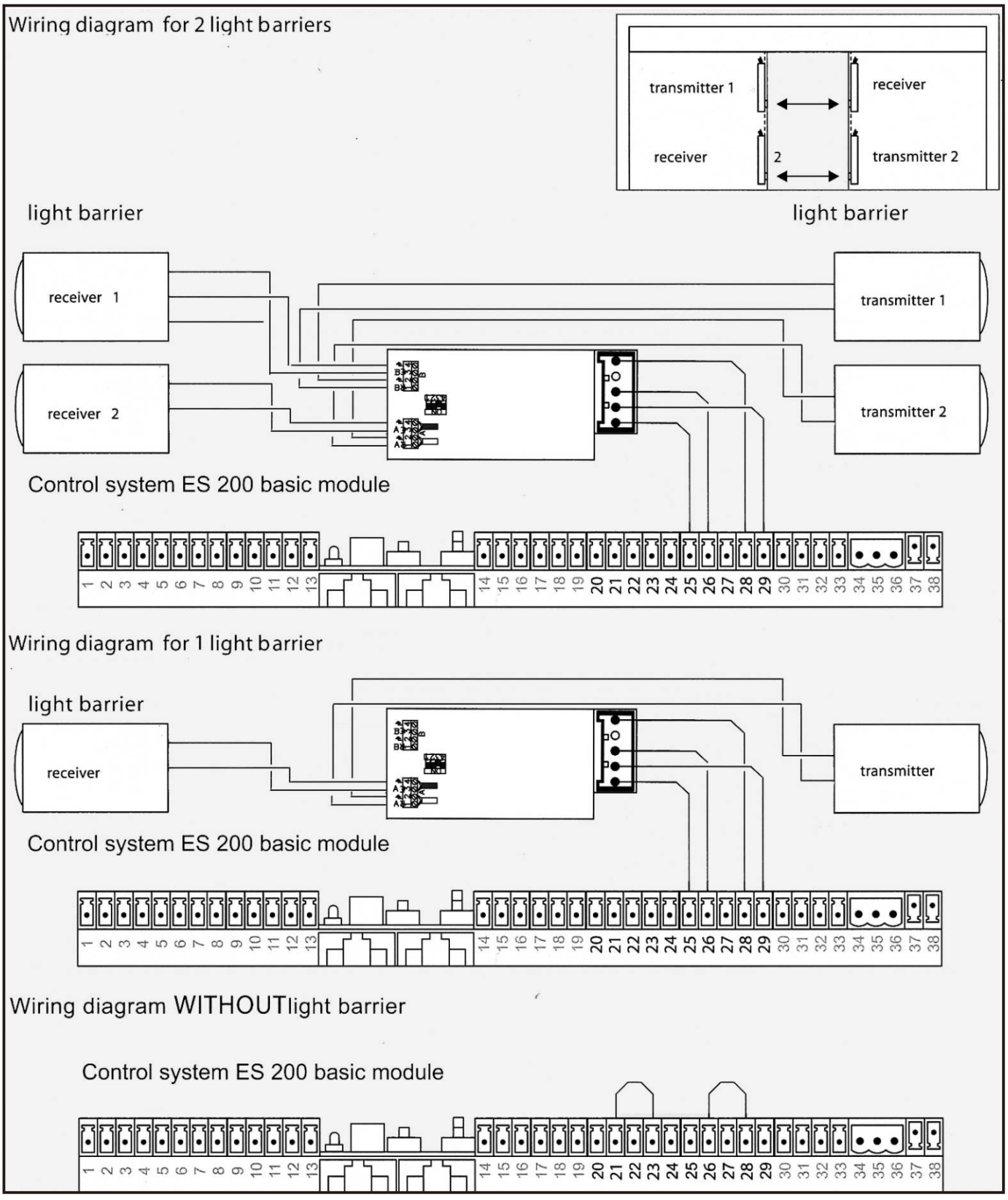


ES 200 Drive Unit

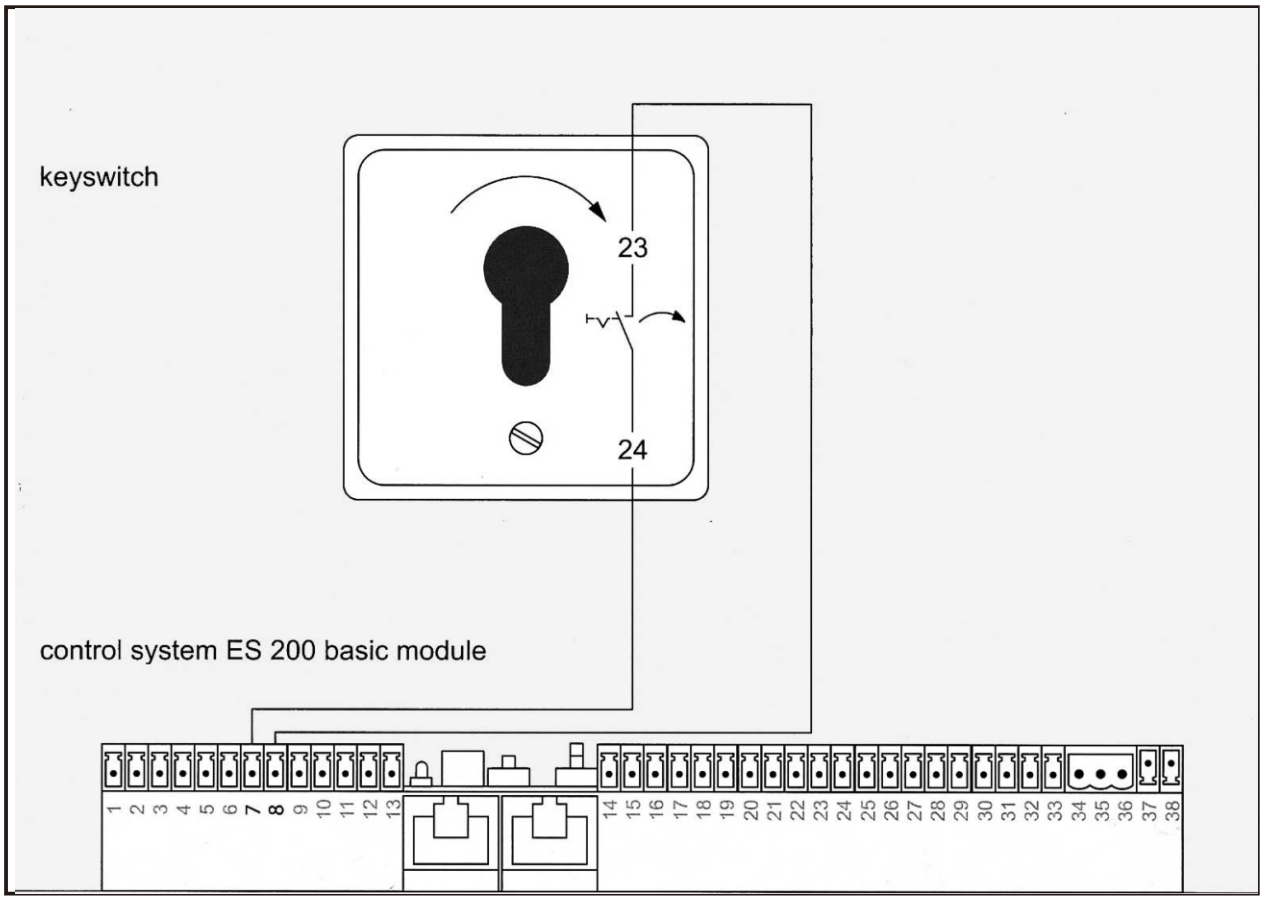
Wiring diagram of the motor, control system and powerly



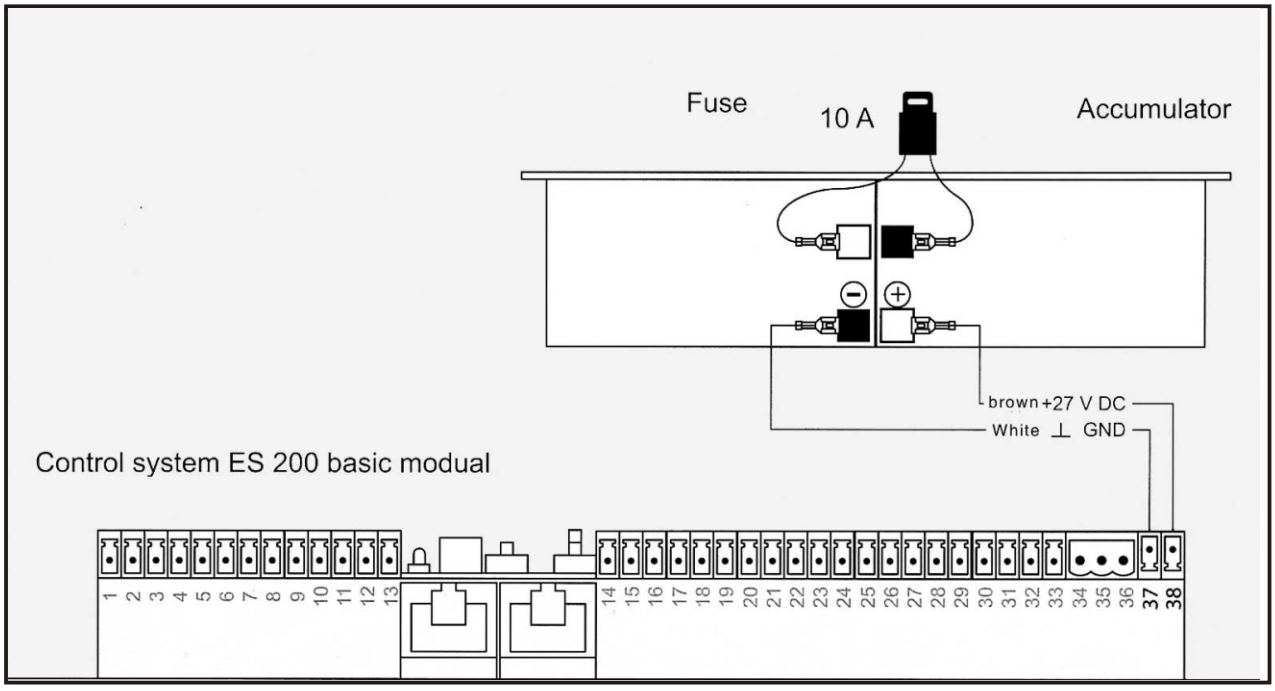
Wiring diagram for light barriers



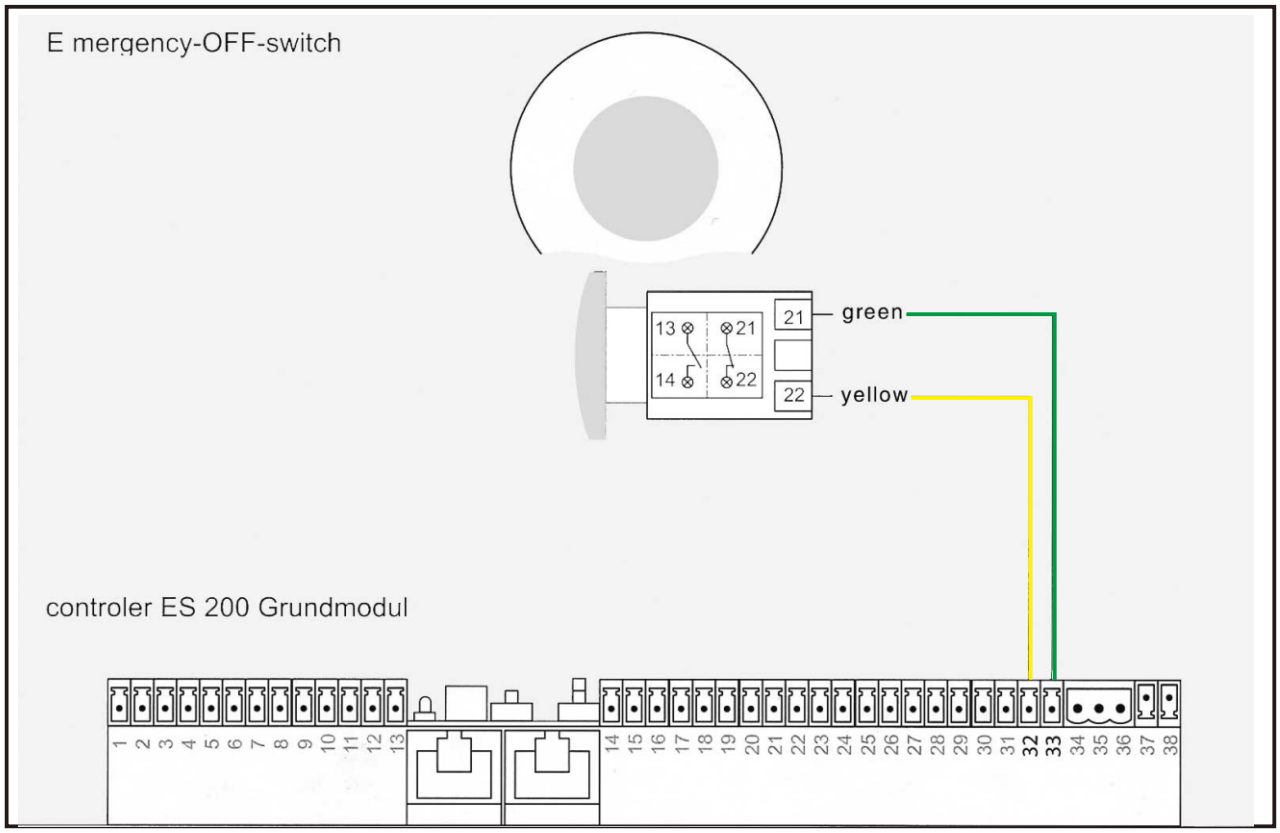
Wiring diagram for keyswitch or open button



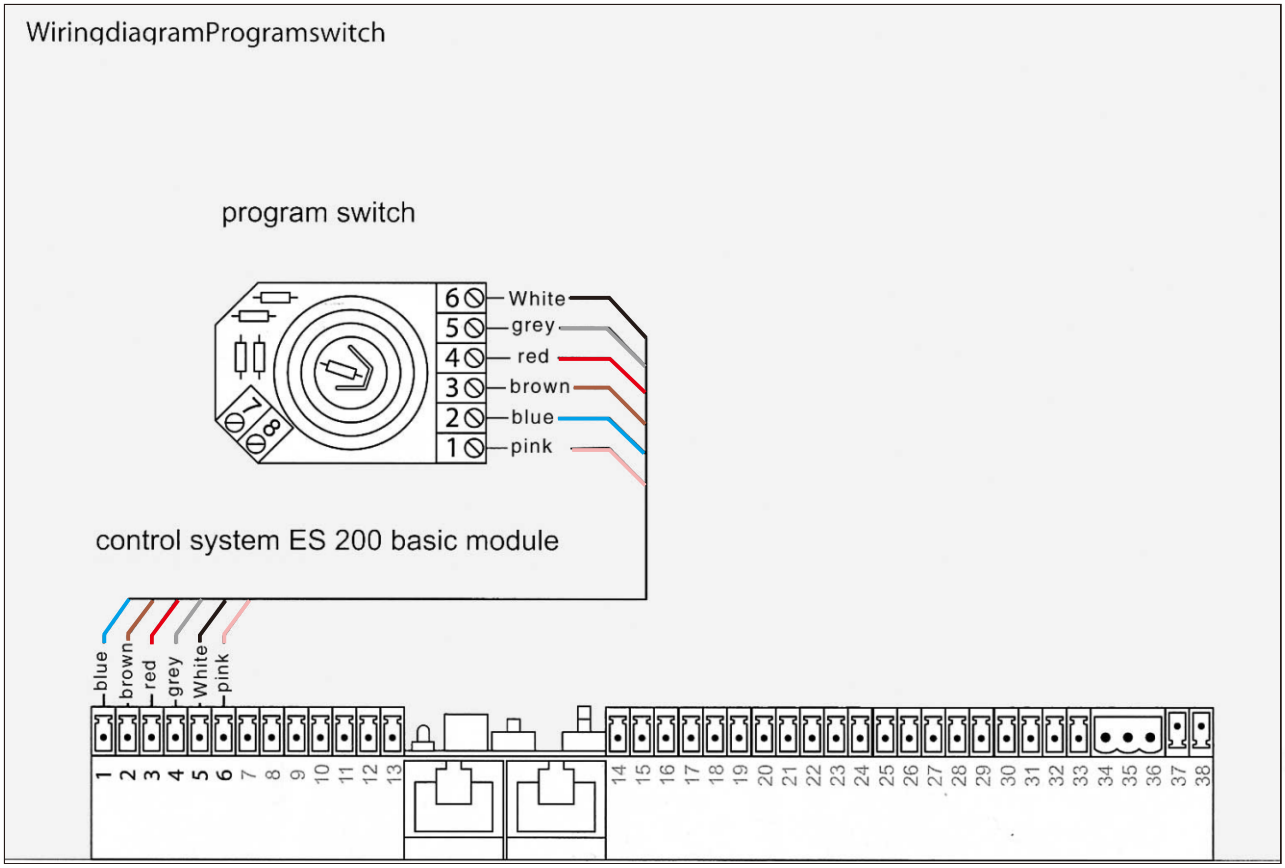
Wiring diagram of the battery



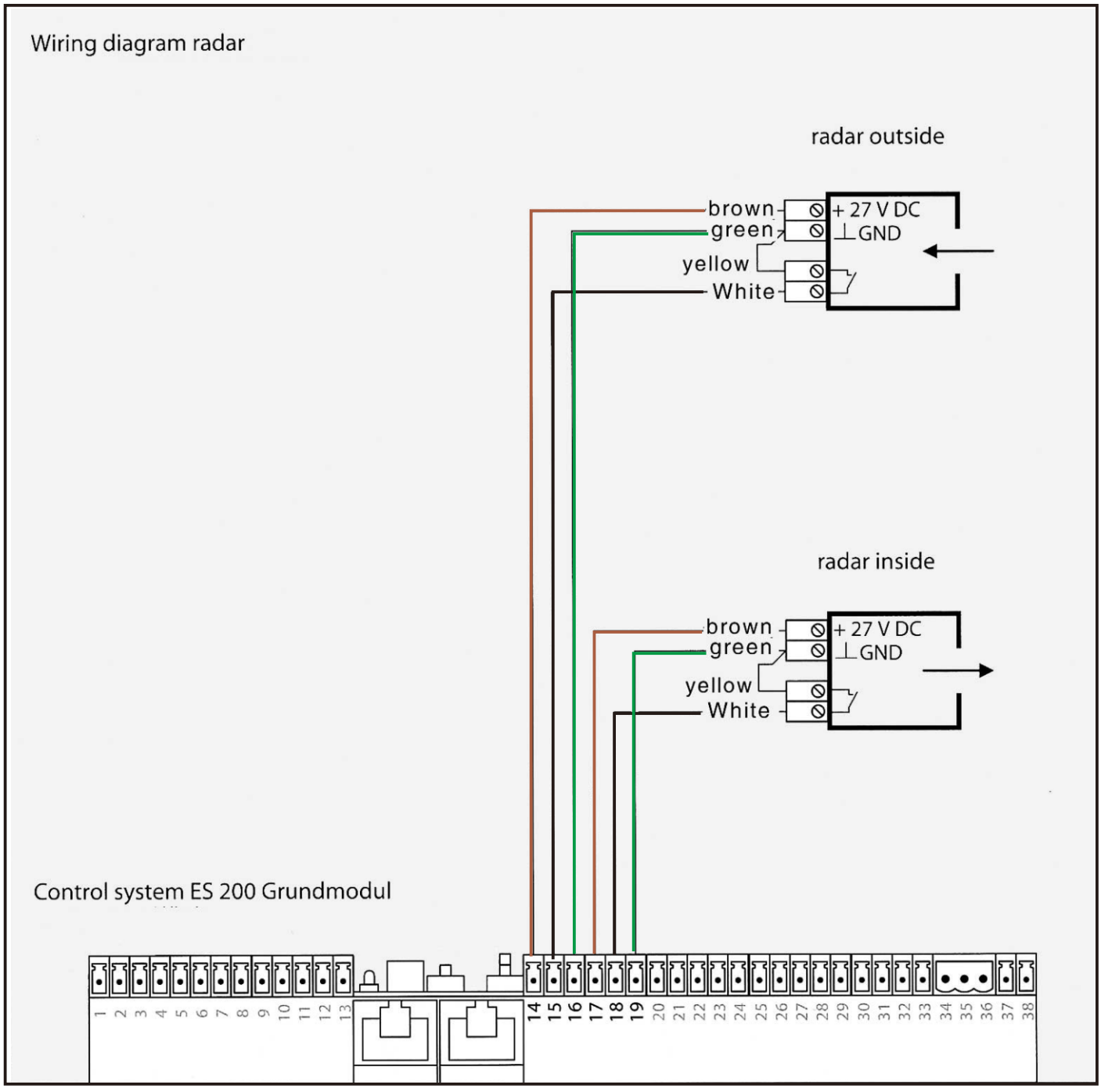
Wiring diagram for Emergency-OFF- button



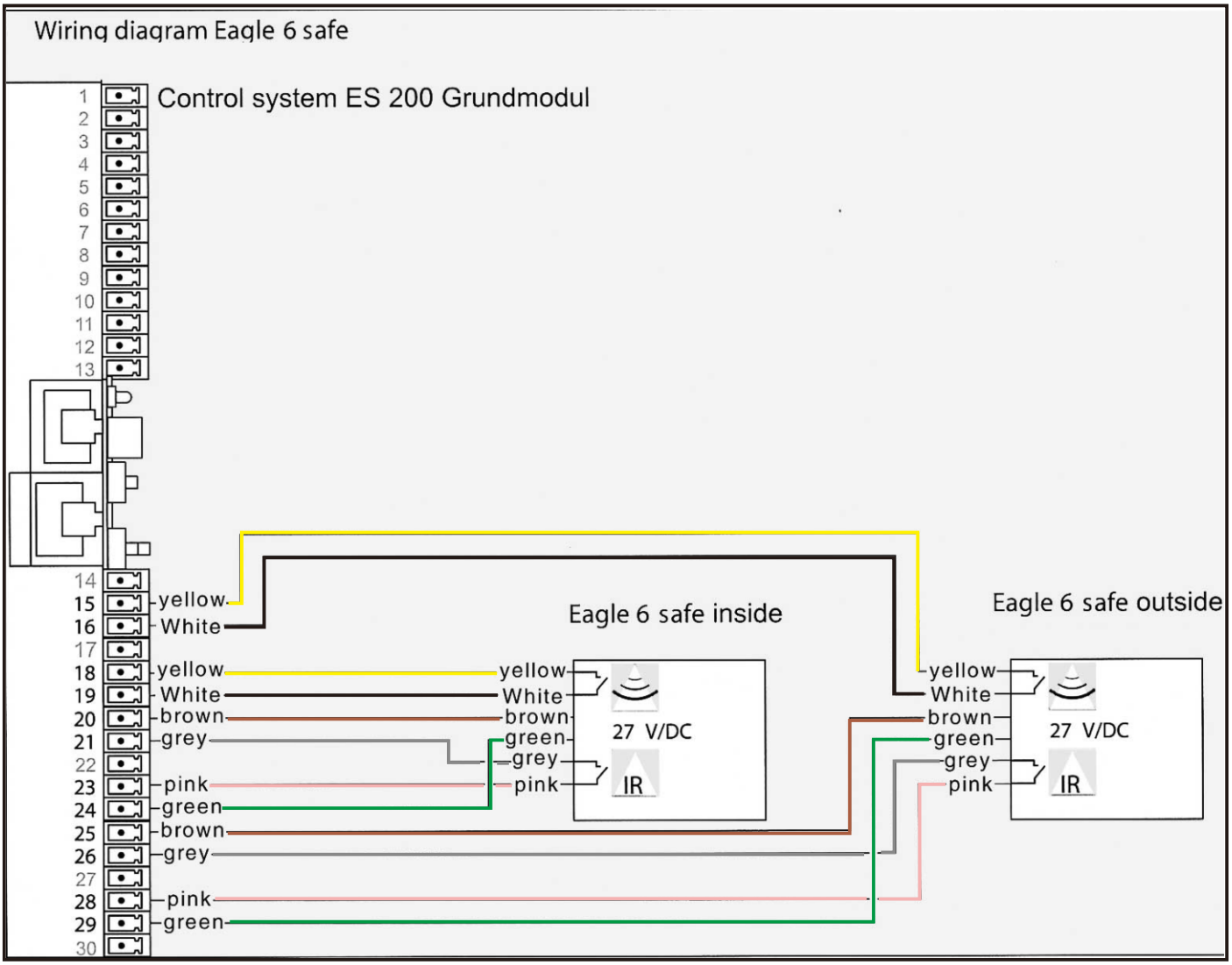
Wiring diagram for programswitch



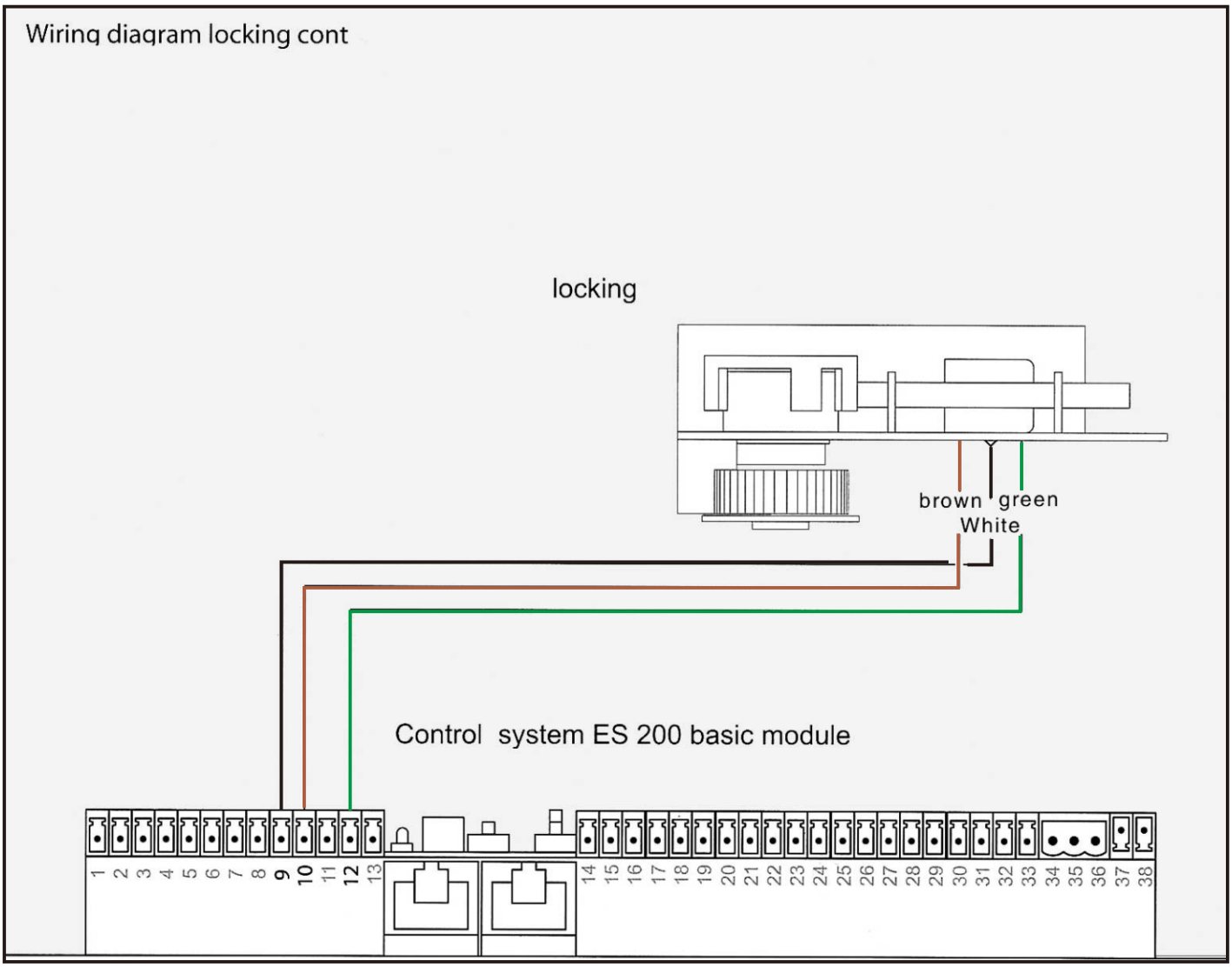
Wiring diagram for sensors

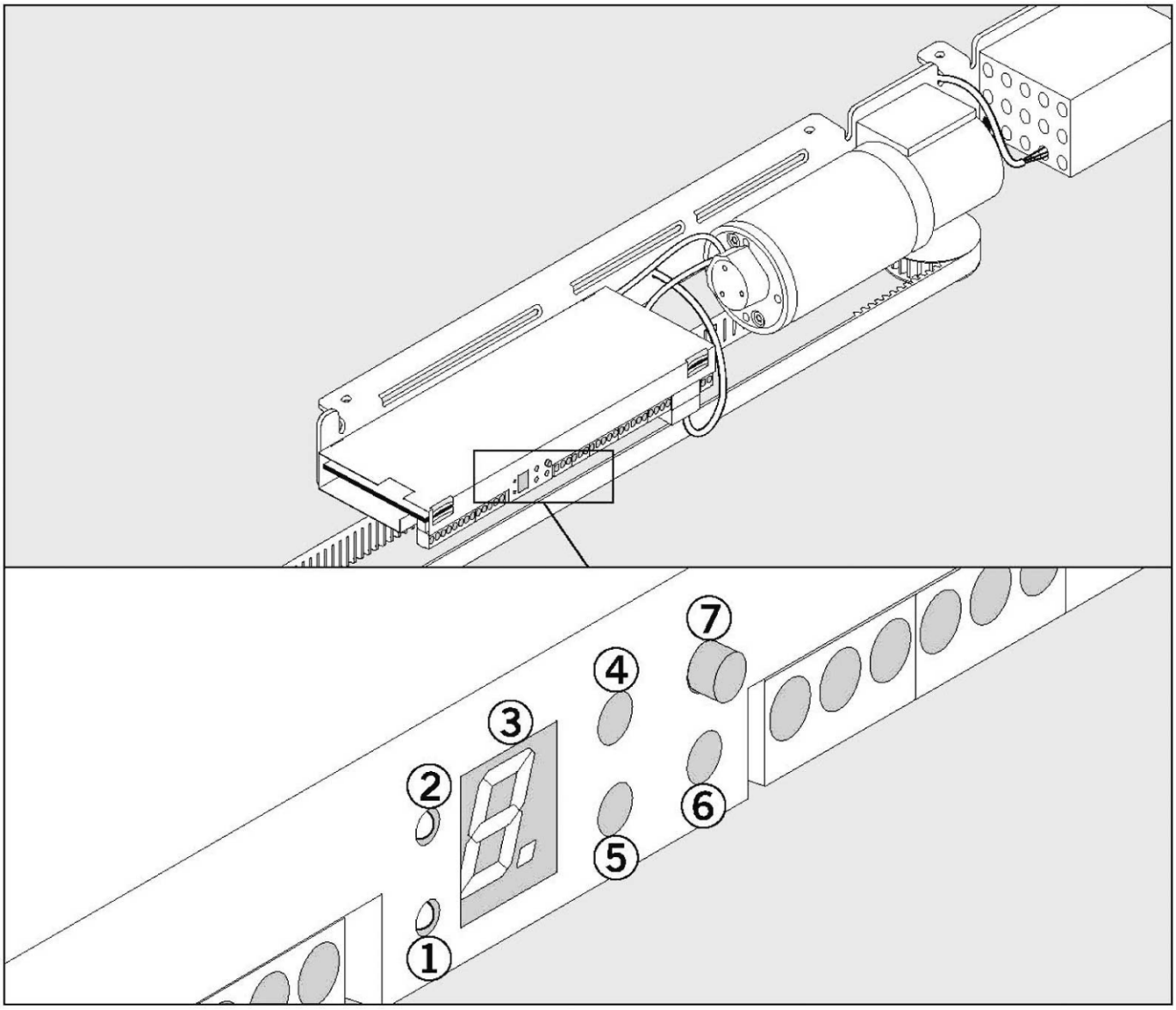


Wiring diagram eagle 6 safe



Wiring diagram locking cont





① **LED 1**		**Status information of safety sensor 1 (e.g. light barrier)**
② **LED 2**		**Status information of safety sensor 2 (e.g. light barrier)**
③ **7-segment-display**		**Display unit for indicating numbers and symbols**
④ **+**		**UP pushbutton for** increasing the parameter or value indicated
⑤ **–**		**DOWN pushbutton for** decreasing the parameter or value indicated
⑥ **SEL.**	SELECT	**Pushbutton for MENU control**
⑦ **SERV.**	Service	**Pushbutton for performing the functions of the service pushbutton**

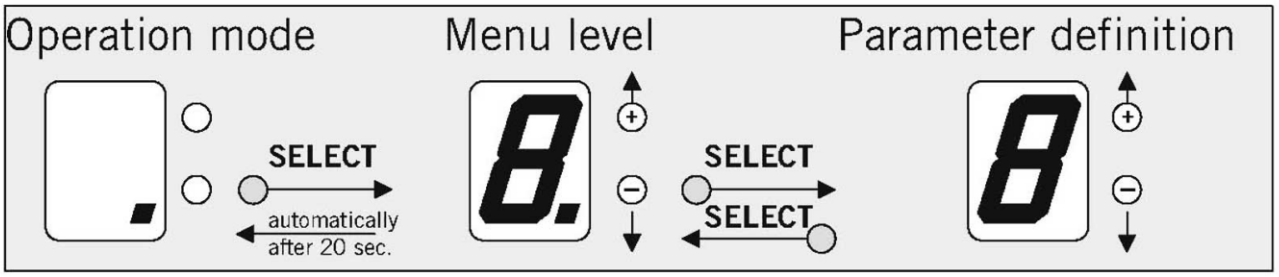
Description of menu structur

Display when in operation
Basic display setting when the operator is functioning correctly

Basic display setting when the operator is malfunctioning (display flashes)

Parameter Display
Menu for selecting the parameter to be checked or changed

Value Display
Readout of the value previously selected via the parameter display.



Meaning of display codes		Display codes
E.	Error display	0 - F
P.	Program mode country specification	0 - 3
r.	Locking in Program switch settings	0 - 3
L.	Locking mode	0 - 5
A.	Back up battery operation	0 - 3
o.	Night-bank-hold open time	0 - F
d.	Hold open time	0 - F
b.	Motor type	0, 1
O.	Opening speed	GR 63 x 55: 0 - d GR 63 x 25: 0 - d
C.	Closing speed	0 - 8
S.	Parameterisation block	0, 1

parameter \ definition	0	1	2	3	4	5	6	7	8	9	A	b	c	d	E	F
P.	X	X	X	X												
r.	X	X	X	X												
L.	X	X	X	X	X	X										
A.	X	X	X	X												
o.	X	X	X	X	X	X	X	X	X	X						X
d.	X	X	X	X	X	X	X	X	X	X						X
b.	X	X														
0. GR 63 x 55	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
C.	X	X	X	X	X	X	X	X	X							
S.	X	X														
E.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Modifying the parameters of the system using the pushbuttons "+", "-", and "select"

At first the following sequense must be observed when setting the parameters.

1. P. check and switch if necessary
2. A. check and switch if necessary
3. r. check and switch if necessary
4. L. check and switch if necessary

Interconnection P. :

P.	0	1	2	3
A.	0 to 3			
r.	0 to 3	0, 1	0, 1	0, 1
L.	0 to 5	0 to 5	0 to 5	0 to 5

Meaning of display codes

P. Country program mode
- 0 Program mode Standard
- 1 Program mode Australia
- 2 Program mode CO 48 disconnect
- 3 Program mode CO 48 connect

r. Locking in program switch setting:
- 0 setting "OFF"
- 1 setting "OFF" and "EXIT ONLY"
- 2 setting "OFF" and "AUTOMATIC/PARTIAL OPENING"
- 3 setting allways if the door is CLOSED

L. Interlock type:
- 0 No interlock
- 1 Bistable interlock
- 2 Bistable interlock with status signalling contact (NO)
- 3 Monostable interlock (fail safe)
- 4 Combi lock
- 5 Rod lock (DCW)

A. Battery mode
- 0 no Battery
- 1 Emergency closing
- 2 Emergency opening
- 3 Battery Emergency mode

o. Night bank Hold open time
- 0 0sec
- 1 1sec
- 2 2sec
- 3 5sec
- 4 8sec
- 5 10sec
- 6 15sec
- 7 20sec
- 8 25sec
- 9 30sec
- F **Adjustment via PDA**

S. Parameterisation block
- 0 Parameterisation block activated
- 1 Parameterisation block de-activated

d. Hold open time
- 0 0sec
- 1 1sec
- 2 2sec
- 3 5sec
- 4 8sec
- 5 10sec
- 6 15sec
- 7 20sec
- 8 25sec
- 9 30sec
- F **Adjustment via PDA**

b. Motor type
- 1 Motor "63x55"/100er Inkr.-Scheibe

0. Opening speed:

Motor 63x55
- 0 10 cm / sec
- 1 15 cm / sec
- 2 20 cm / sec
- 3 25 cm / sec
- 4 30 cm / sec
- 5 35 cm / sec
- 6 40 cm / sec
- 7 45 cm / sec
- 8 50 cm / sec
- 9 55 cm / sec
- A 60 cm / sec
- b 65 cm / sec
- c 70 cm / sec
- d 75 cm / sec

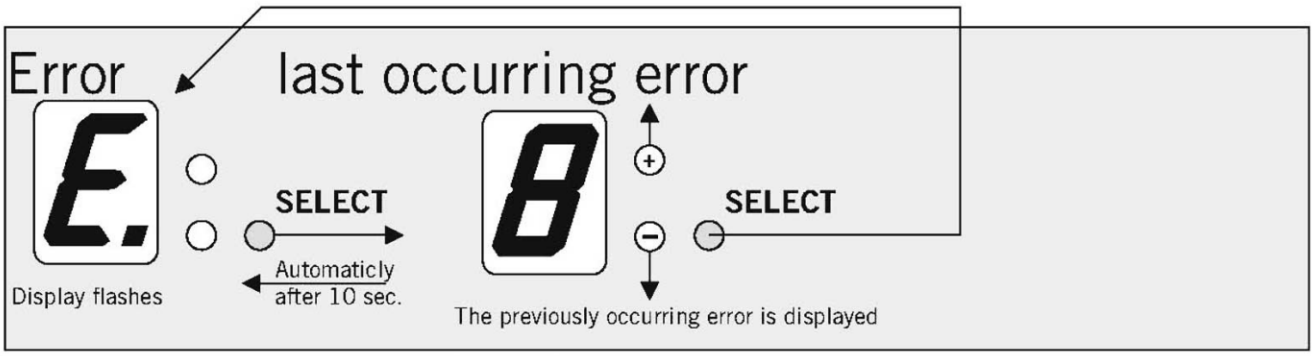
C. Closing speed
- 0 10 cm / sec
- 1 15 cm / sec
- 2 20 cm / sec
- 3 25 cm / sec
- 4 30 cm / sec
- 5 35 cm / sec
- 6 40 cm / sec
- 7 45 cm / sec
- 8 50 cm / sec

E. Error display

See next page

Query of error messages

Only the current error can be acknowledged
(The errors must be rectified irrespective of acknowledgement)
Up to 10 errors can be stored (irrespective of type)



Meaning of display codes

0	No error in memory
1	Obstruction
2	Lock
3	Program switch
4	Light barrier
5	Incremental encoder
6	Back up accumulator
7	System
8	EMERGENCY STOP operated
9	Learning cycle parameter error
A	Motor fault
c	Force test
d	Overcurrent at motor
F	DCW
L	Relay test fault


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