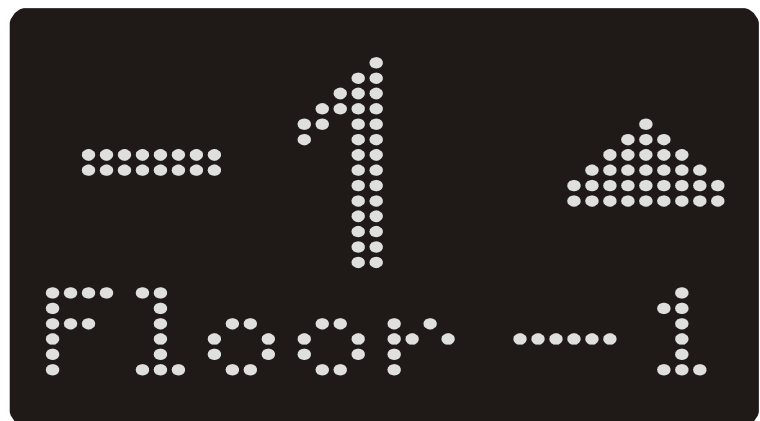
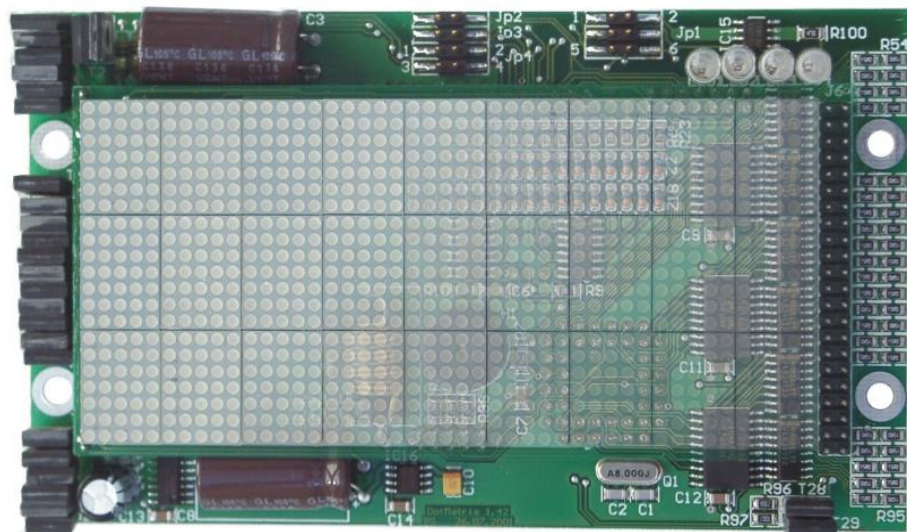


Operating instruction

digidot

High-resolution dot matrix

Status: 28.4.2024



Important notice:

The data and information in this documentation have been made up with the utmost care. Although everything has been done to keep the information included in this volume up-to-date and correct at the date of publishing, we cannot guarantee that it is absolutely free of faults.

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1 Safety references

1.1 Typographic conventions and safety instructions

For this document the typographic conventions stated below shall apply.

Table 1:
Typographic
conventions

Type style / symbol	Meaning
 Information	Includes special information and useful tips for working with the product
 Important	This warning label refers to dangers. There is a risk of accidents with bodily injuries or material damage if the respective precautions are not taken.

1.2 Product liability and warranty

STRACK LIFT AUTOMATION GmbH reserves the right to modify the product from time to time without notice and to make changes. Application of this product in the USA and in countries under similar law is not permitted. Otherwise, the General Terms of Trade and Delivery of STRACK LIFT AUTOMATION GmbH shall apply.

1.3 Personnel for installation and operation

All chapters of this operating instruction include important information referring to the intended use of the product. These chapters are addressed to technically qualified persons especially trained for the installation, repair, maintenance and commissioning of lift installations to be erected in compliance with the relevant lift regulations. It is to be observed that all activities are carried out according to the respective legislation for occupational safety. Observe the relevant accident prevention rules and the regulations for safety measures upon installation and maintenance of lifts.

1.4 Risk assessment

Awareness and technical putting into practice of the safety instructions included in this documentation is prerequisite for a fault-free product. This documentation however cannot consider all possible details in all possible cases of installation. Therefore, like in any other case, an element of risk remains, particularly owing to human error. This documentation shall contribute to reduce the residual risk to a minimum.

1.5 Operational reliability

In order to guarantee the fault-free operation of the product the information in the plans supplied along with the material and the remarks in the operating instructions regarding electro-magnetic compatibility are to be observed strictly.

2 Intended use

The digital indicator “digidot” is intended exclusively for the signalisation of operating states and for the emergency lighting in the lift car in case of a power failure, for passenger and goods lifts. The purchase contract (order form, order acknowledgement, circuit diagrams etc.) is decisive for the definition of the intended use.

All chapters of this operating instruction include important information for the intended use of this product.

3 Scope of features included

- ☺ power supply 24VDC with controller for low consumption and high EMC
- ☺ activation in Gray code, common cathode, maximum 63 floors
- ☺ 945 red image spots with 2 mm diameter each
- ☺ image area W x H (mm): 115 x 54
- ☺ emergency light integrated (automatic, 11-30V)
- ☺ menu-assisted, can be parameterised in built-in condition by 2 integrated keys
- ☺ floor indicator with up to 5 characters
- ☺ integrated overload indicator with buzzer
- ☺ any adjustable text, displayable via 4 special inputs
- ☺ intelligent output for landing gong (only one output on the control required!)
- ☺ intelligent travel continuation arrows (needs only one output per each direction on the control!)
- ☺ travel continuation arrows (optional: superseding the floor indicator)
- ☺ in software variations A, C and D: for any floor an additional text with maximum 32 characters can be programmed
- ☺ arrangement of floor indicator, direction arrows and additional floor-related texts can be selected on the display
- ☺ scrolling, jumping and blinking speed can be adjusted
- ☺ normally installed behind a flush pane of red Macrolon filtering glass

4 General description

The floor indicator **digidot** is a parameterisable, high-resolution dot matrix indicator with an up to 54 mm high floor indication display, floor related additional texts (horizontally scrolling or stationary), UP-DOWN-directional arrows (vertically scrolling or stationary), emergency light (automatically adjusting from 11-30V), overload indicator incl. buzzer, etc. The indicators can be used for the car and for the landings. Horizontal and vertical installation is possible, with difference only in the indicator software.

There are 2 types of connection and 4 types of software available:

Types of connection: 1. icall bus connection 2. plug-in/screw type terminal

Types of software:

A: horizontal installation, medium floor indicator (35 mm) with floor information texts

B: horizontal installation, large floor indicator (54 mm) without floor information texts

C: vertical installation, medium floor indicator (35 mm) with floor information texts

D: horizontal installation, small floor indicator (25 mm) with floor information texts

4.1 General Gray code table

(„0“ = open / „1“ = +24V)

Table 2:
General Gray
code table

Level	Gray code	Level	Gray code	Level	Gray code	Level	Gray code
	Bit		Bit		Bit		Bit
	5 4 3 2 1 0		5 4 3 2 1 0		5 4 3 2 1 0		5 4 3 2 1 0
63	1 0 0 0 0 0	47	1 1 1 0 0 0	31	0 1 0 0 0 0	15	0 0 1 0 0 0
62	1 0 0 0 0 1	46	1 1 1 0 0 1	30	0 1 0 0 0 1	14	0 0 1 0 0 1
61	1 0 0 0 1 1	45	1 1 1 0 1 1	29	0 1 0 0 1 1	13	0 0 1 0 1 1
60	1 0 0 0 1 0	44	1 1 1 0 1 0	28	0 1 0 0 1 0	12	0 0 1 0 1 0
59	1 0 0 1 1 0	43	1 1 1 1 1 0	27	0 1 0 1 1 0	11	0 0 1 1 1 0
58	1 0 0 1 1 1	42	1 1 1 1 1 1	26	0 1 0 1 1 1	10	0 0 1 1 1 1
57	1 0 0 1 0 1	41	1 1 1 1 0 1	25	0 1 0 1 0 1	9	0 0 1 1 0 1
56	1 0 0 1 0 0	40	1 1 1 1 0 0	24	0 1 0 1 0 0	8	0 0 1 1 0 0
55	1 0 1 1 0 0	39	1 1 0 1 0 0	23	0 1 1 1 0 0	7	0 0 0 1 0 0
54	1 0 1 1 0 1	38	1 1 0 1 0 1	22	0 1 1 1 0 1	6	0 0 0 1 0 1
53	1 0 1 1 1 1	37	1 1 0 1 1 1	21	0 1 1 1 1 1	5	0 0 0 1 1 1
52	1 0 1 1 1 0	36	1 1 0 1 1 0	20	0 1 1 1 1 0	4	0 0 0 1 1 0
51	1 0 1 0 1 0	35	1 1 0 0 1 0	19	0 1 1 0 1 0	3	0 0 0 0 1 0
50	1 0 1 0 1 1	34	1 1 0 0 1 1	18	0 1 1 0 1 1	2	0 0 0 0 1 1
49	1 0 1 0 0 1	33	1 1 0 0 0 1	17	0 1 1 0 0 1	1	0 0 0 0 0 1
48	1 0 1 0 0 0	32	1 1 0 0 0 0	16	0 1 1 0 0 0	-	0 0 0 0 0 0

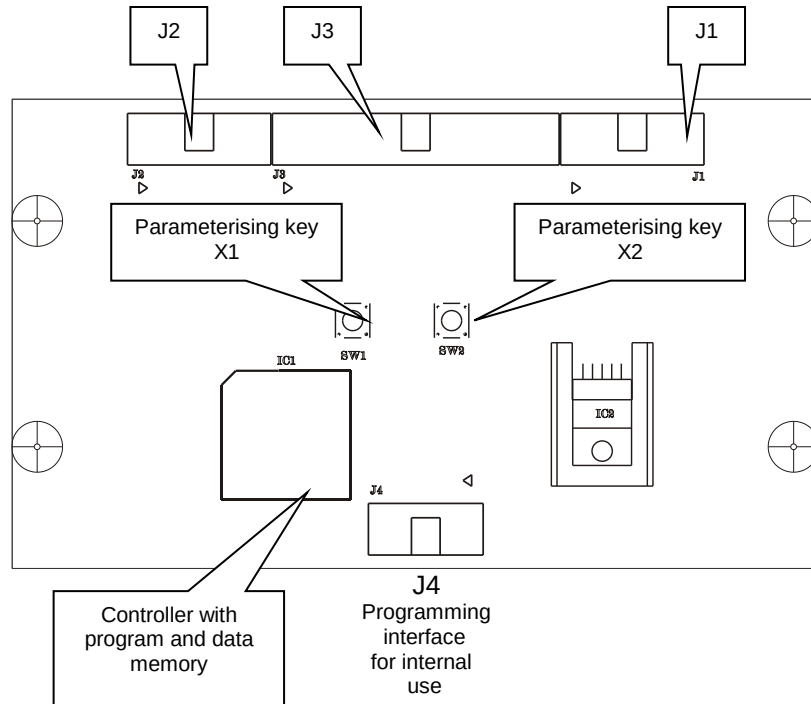
5 Version with pluggable icall connection

5.1 Hardware

5.1.1 Rear view

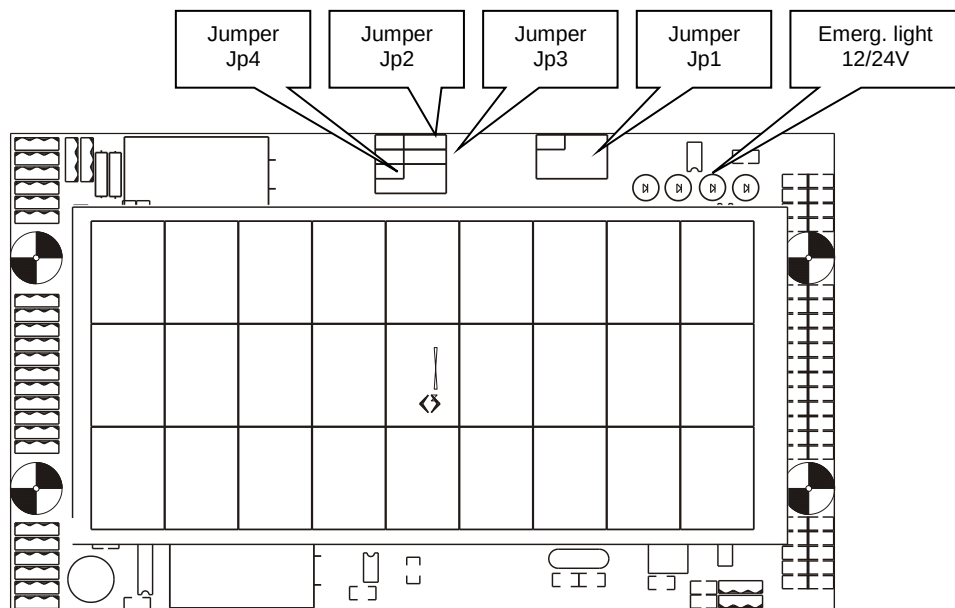
icall-bus connection by 14 or 34-pole flat cable

Figure 1:
digidot icall
hardware
Rear view



5.1.2 Front view

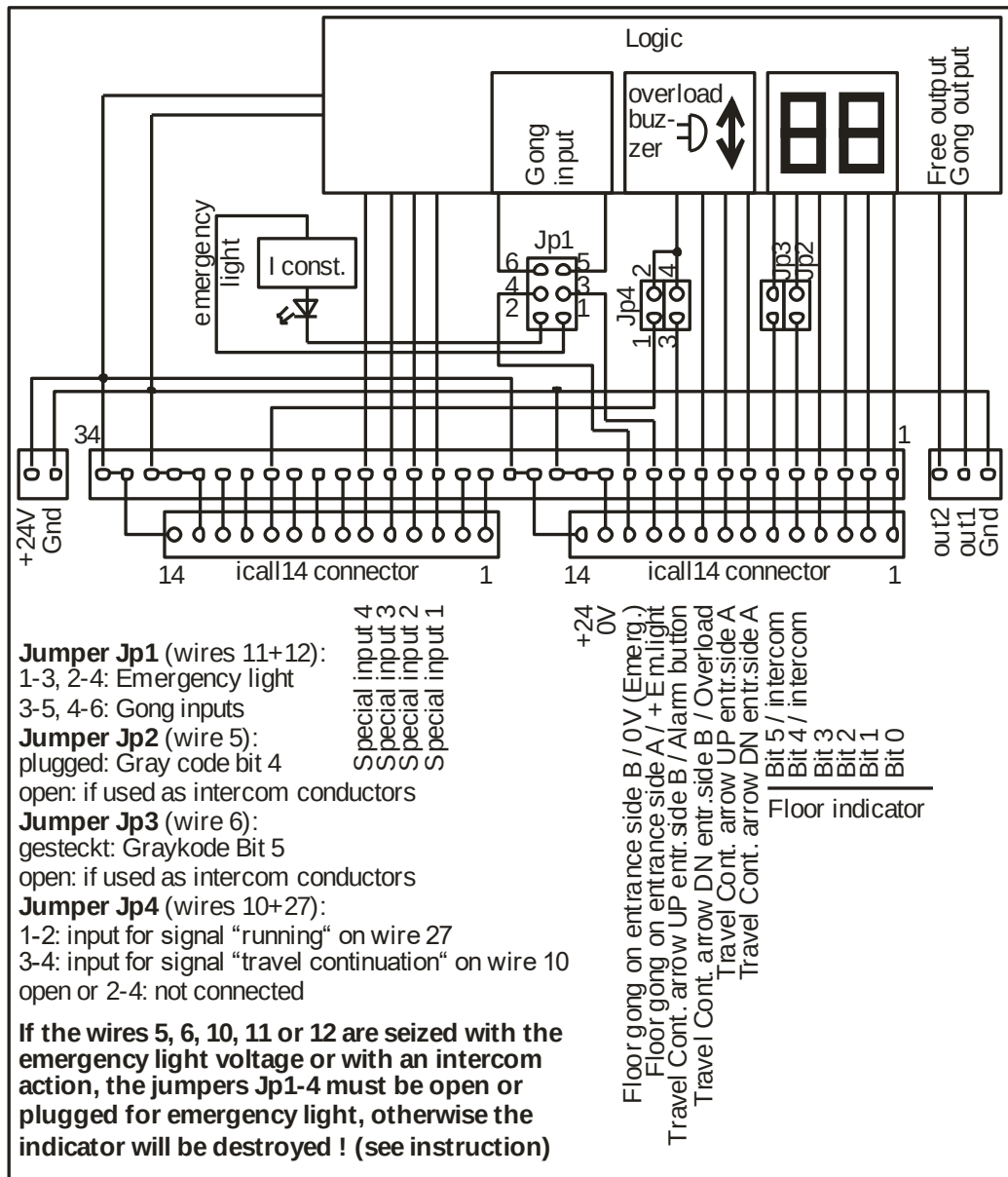
Figure 2:
digidot icall
hardware
Front view



5.2 Pin assignment for version icall bus connection

5.2.1 Connection diagram

Figure 3:
Digidot icall
Connection
diagram



Indicator available only with common cathode.

Travel continuation arrows and gong need only one output of the control. The decision, which one of the connected indicators activates the arrow or gong is taken autonomously by the indicator on the basis of the set floor (parameter). If the indicators are located on different entrance sides, this will also be set by means of a parameter.

5.2.2 Plug connector J1 / J3

Table 3:
digidot-icall
plug J1 / J3

icall-bus conn. J1 Term. no.	icall-bus conn. J3 Terminal no.	Connection / activation	Assignment / function	Current consumption resp. rating in mA
14	16,17,33, 34	fixed connection with the icall-bus	+ 24V	
13	13,14,15, 30,31,32	fixed connection with the icall-bus	0V(24)	
12	29	- / -		-
11	28	- / -		-
10	27	Jumper Jp4: 1-2 / parameter 15	travel input	2,5
9	26	- / -		
8	25	fixed connection with the icall-bus / no activation	special output, keine Funktion	Maximal 1000
7	24	fixed connection with the icall-bus / parameter 03	gong output	Maximal 1000
6	23	fixed connection with the icall-bus / parameter 16/15	special input 4 (or travel input: input 16 as per parameter 15)	2,5
5	22	fixed connection with the icall-bus / parameter 16/15	special input 3 (or travel input: input 15 as per parameter 15)	2,5
4	21	fixed connection with the icall-bus / parameter 16/15	special input 2 (or travel input: input 14 as per parameter 15)	2,5
3	20	fixed connection with the icall-bus / parameter 16/15	special input 1 (or travel input: input 13 as per parameter 15)	2,5
2	19	- / -		-
1	18	- / -		-

5.2.3 Plug connector J2 / J3

Table 4:
digidot-icall
plug J2 / J3

icall-bus plug J1 Term. no.	icall-bus plug J3 Terminal no.	Connection / activation	Assignment / function	Current consumption resp. rating in mA
14	16,17,33, 34	permanently connected with the icall-bus	+ 24V	mean val. 300; maximum 500 in normal operation dep. from the set brightness and no. of lit LED's; maximum 800 in test operat.
13	13,14,15, 30,31,32	permanently connected with the icall-bus	0V(24)	
12	12	Jumper Jp1: 2-4 Jumper Jp1: 4-6 Parameter 02/03/15	Emergency light 0V Gong input door B (or travel input: input 12 as per parameter 15)	2,5
11	11	Jumper Jp1: 1-3 Jumper Jp1: 3-5 Parameter 02/03/15	Emergency light up to +30V Gong input door A (or travel input: input 11 as per parameter 15)	25 2,5
10	10	Jumper Jp4: 3-4 Parameter 02/15	Direction arrow door B UP (or travel input: input 10 as per parameter 15)	2,5
9	9	permanently connected with the icall-bus	Overload input (buzzer) or direction arrow door B DOWN (or travel input: input 9 as per parameter 15)	25
8	8	perm. connected with the icall-bus / Parameter 02/15	Direction arrow door A UP (or travel input: input 8 as per parameter 15)	2,5

7	7	perm. connected with the icall-bus / Parameter 02/15	Direction arrow door A DOWN (or travel input: input 7 as per parameter 15)	2,5
6	6	Jumper Jp3: 1-2 Parameter 06/15	Floor indicator Gray code bit 5 (or travel input: input 6 as per parameter 15)	2,5
5	5	Jumper Jp2: 1-2 Parameter 06/15	Floor indicator Gray code bit 4 (or travel input: input 5 as per parameter 15)	2,5
4	4	perm. connected with the icall-bus / parameter 06/15	Floor indicator Gray code bit 3 (or travel input: input 4 as per parameter 15)	2,5
3	3	perm. connected with the icall-bus / parameter 06/15	Floor indicator Gray code bit 2 (or travel input: input 3 as per parameter 15)	2,5
2	2	perm. connected with the icall-bus / parameter 06	Floor indicator Gray code bit 1	2,5
1	1	perm. connected with the icall-bus / parameter 06	Floor indicator Gray code bit 0	2,5

5.3 Jumper assignment



Important! Observe strictly the correct position of jumper Jp1 before the display will be connected. This applies also to replacements. Incorrect jumper assignment can result in a destruction of the display or of other parts of the control since different voltage potentials are bridged.

Table 5:
digidot-icall
Jumper
assignment
Jp1

Jumper Jp1		
Bridge 1-3 Bridge 2-4	Bridge 3-5 Bridge 4-6	open open
Bus plug J2/J3 pin 11+12 seized with emergency light	Bus plug J2/J3 pin 11+12 seized with gong inputs	Bus plug J2/J3 pin 11+12 not connected with the indicator

Table 6:
digidot-icall
Jumper
assignment
Jp2+3

Jumper Jp2		Jumper Jp3	
Bridge 1-2	open	Bridge 1-2	open
Gray code bit 4 alternative travel input	Terminal J2 pin 5 can be used otherwise	Graycode Bit 5 alternative travel input	Terminal J2 pin 6 can be used otherwise

Table 7:
digidot-icall
Jumper
assignment
Jp4

Jumper Jp4		
Bridge 1-2	Bridge 3-4	open
Travel input J1 terminal 10	Travel input J2 terminal 10	Terminals J1/J2 pin 10 can be used otherwise

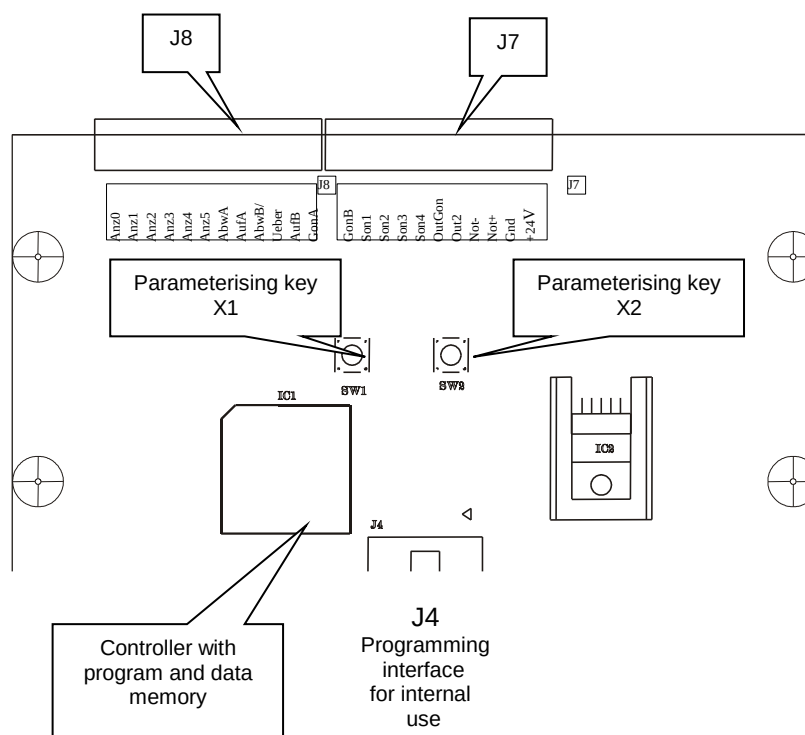
6 Version with screw terminals

The connection terminals are of the plug-in package type. The cross section of the conductor is max. 1,5mm². A screw driver with a 2mm blade is required.

6.1 Hardware

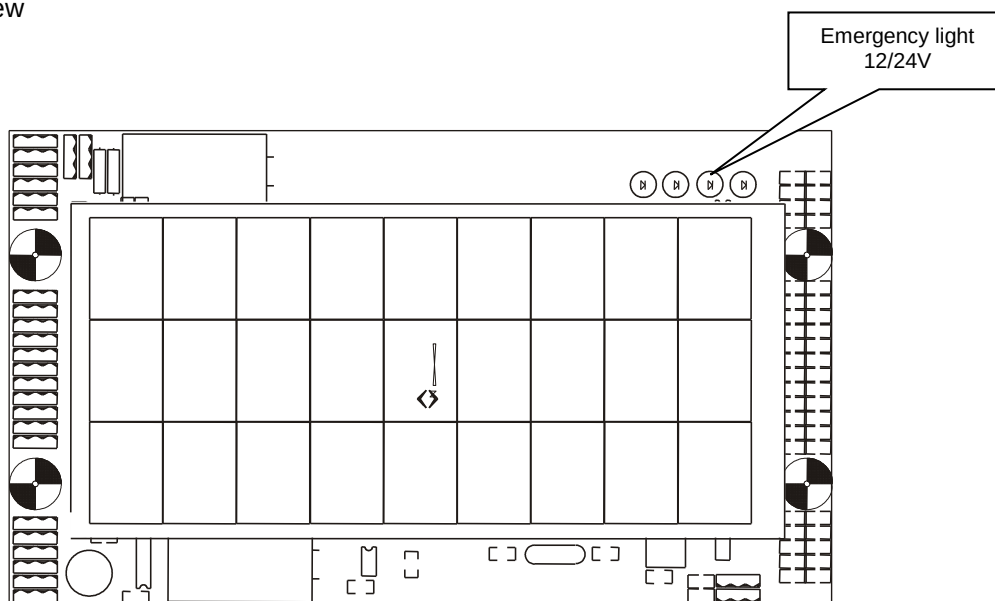
6.1.1 Rear view

Figure 4:
digidot
hardware
Rear view



6.1.2 Front view

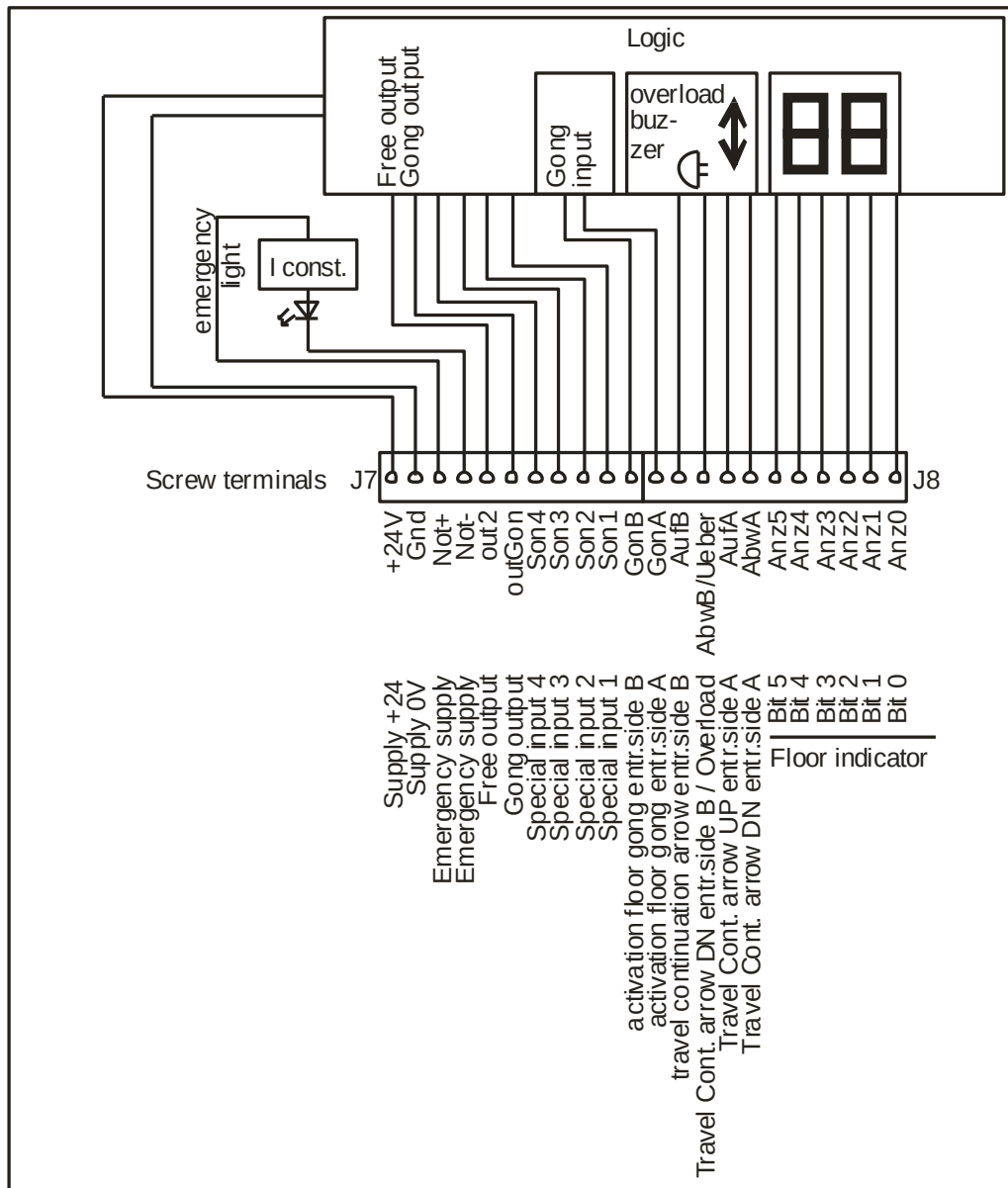
Figure 5:
digidot
hardware
Front view



6.2 Terminal assignment for the screw terminal version

6.2.1 Circuit diagram

Figure 6:
digidot
Connection
diagram



Indicator available only with common cathode.

Travel continuation arrows and gong need only one output of the control. The decision, which one of the connected indicators activates the arrow or gong is taken autonomously by the indicator on the basis of the set floor (parameter). If the indicators are located on different entrance sides, this will also be set by means of a parameter.

6.2.2 Plug connector J7 (screw terminals)

Table 8:
digidot
Plug J7

Terminal no.	Activation	Assignment / function	Current consumption resp. rating in mA
+24V	-	+ 24V	mean val. 300; maximum 500 in normal operation dep. from the set intensity and the no. of lit LED's; maximum 800 in test operat.
Gnd	-	0V(24)	
Not+	-	Emergency light up to +30V	25
Not-	-	Emergency light -	
Out2	-	Out2	maximum 1000
OutGon	Parameter 03	Out1 / gong output	maximum 1000
Son4	Parameter 16 or 15	Special input 4 (or travel input: input 16 as per parameter 15)	2,5
Son3	Parameter 16 or 15	Special input 3 (or travel input: input 15 as per parameter 15)	2,5
Son2	Parameter 16 or 15	Special input 2 (or travel input: input 14 as per parameter 15)	2,5
Son1	Parameter 16 or 15	Special input 1 (or travel input: input 13 as per parameter 15)	2,5
GonB	Parameter 02 and 03 or 15	Gong input door B (or travel input: input 12 as per parameter 15)	2,5

6.2.3 Plug connector J8 (screw terminals)

Table 9:
digidot
Plug J8

Terminal no.	Activation	Assignment / function	Current consumption in mA
GonA	Parameter 02 and 03 or 15	Gong input door A (or travel input: input 11 as per parameter 15)	2,5
AufB	Parameter 02 or 15	Direction arrow door B UP (or travel input: input 10 as per parameter 15)	2,5
AbwB / Ueber	Parameter 16 or 02 or 15	Overload input (buzzer) or direction arrow door B DOWN (or travel input: input 9 as per parameter 15)	2,5
AufA	Parameter 02 or 15	Direction arrow door A UP (or travel input: input 8 as per parameter 15)	2,5
AbwA	Parameter 02 or 15	Direction arrow door A DOWN (or travel input: input 7 as per parameter 15)	2,5
Anz5	Parameter 06 or 15	Floor indicator Gray code bit 5 (or travel input: input 6 as per parameter 15)	2,5
Anz4	Parameter 06 or 15	Floor indicator Gray code bit 4 (or travel input: input 5 as per parameter 15)	2,5
Anz3	Parameter 06 or 15	Floor indicator Gray code bit 3 (or travel input: input 4 as per parameter 15)	2,5
Anz2	Parameter 06 or 15	Floor indicator Gray code bit 2 (or travel input: input 3 as per parameter 15)	2,5
Anz1	Parameter 06	Floor indicator Gray code bit 1	2,5
Anz0	Parameter 06	Floor indicator Gray code bit 0	2,5

7 Parameterising

7.1 Menu assisted parameterising

The **digidot** can be extensively parameterised, directly on the display, without further aid. The data are stored in a non-volatile EEPROM data memory. By copying the memory (special equipment needed) the data of a fully parameterised display can be transferred to other displays.

The data input is carried out by means of the two parameterising keys X1 and X2 in the rear. The menu assisted communication with the user is performed via the normal display.

During operation the user looks on the display from the front and puts 2 fingers on the two parameterising keys X1 and X2 in the rear. If in normal operation both keys are pressed simultaneously, the menu with the parameter settings will be entered. All parameters and texts can now be edited and modified.

Meaning of the abbreviations:

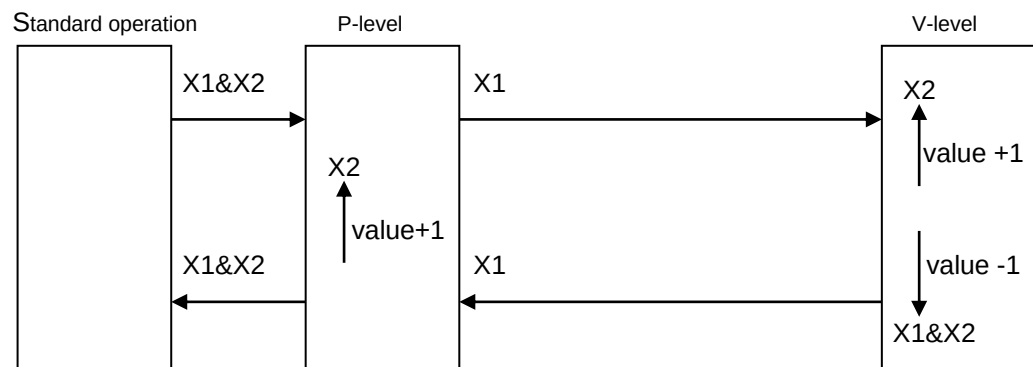
P: "Parameter" means the parameter number (see table below)

V: "Value" is the value resp. the text associated to the parameter

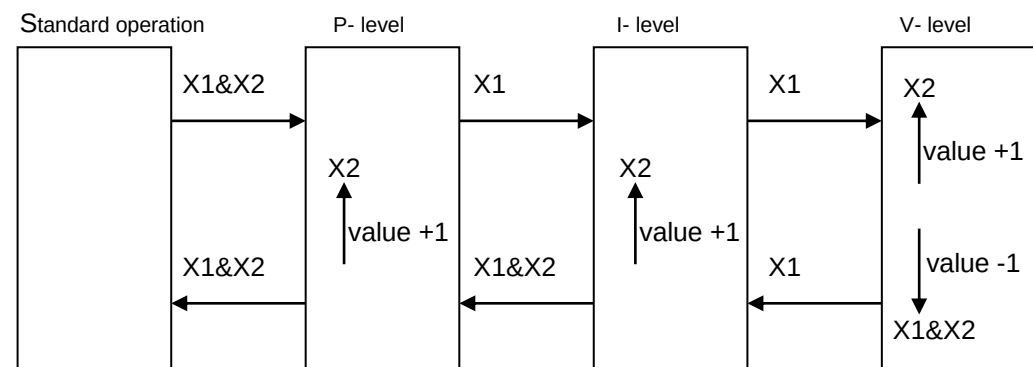
I: "Index" is to be stated only in case of parameters with index (see table below)

The current menu level is marked with '>' in front of the abbreviations mentioned above.

Parameter without index



Parameter with Index



Meaning of the keys:

Key X1:

Key X2:

Both keys:

Transfer key

Numerical value +1

Menu level P:

Menu level I:

Menu level V:

Exit of parameter settings

Back to Menu level P

Numerical value -1

Figure 7:
Menu
operation

Change of numbers

Set the parameter to be changed with key X2, press transfer key X1.

If needed, set index with key X2, press again transfer key X1.

The current value is now indicated and can be increased with key X2 or decreased with both keys.

If the value arrives at a setting limit, it jumps to the next possible setting.

Change of texts

Set the parameter to be changed with key X2, press transfer key X1.

If needed, set index with key X2, press again transfer key X1.

The current value is now indicated, terminated with an end symbol (rectangle of 4x6 dots).

This end symbol will not be stored, it is only there to mark the end of the text!

The 1st character after V can now be increased by key X2 or decreased with both keys.

If the character is set, go to the second symbol with transfer key X1, the text will be shifted to the left side.

Proceed until you arrive at the end of the text. When you reach the end (4x6 dot rectangle) set the end symbol and acknowledge again with the X1-key. Now the text will be stored and you are automatically in the higher menu level.

Note:

Behind the end symbol a possibly existing old text will be cancelled. If the new text is longer than the existing one, just overwrite the end symbol with the desired character. At the end of the new text set the end symbol as usual.

8 Parameter setting

8.1 Displayable characters of the floor position indicator

To display the status of the level the following (reduced) set of characters is available (the characters in parentheses usually wouldn't make much sense):

Table 10:
Table of
symbols
Floor position

Code	Character	Code	Character	Code	Character
-	-	=	(arrow 1 down/upw.)	M	M
.	.	>	(arrow 2 downward)	N	N
/	/	?	(arrow 2 upward)	O	O
0	0	@	(arrow 2 down/upw.)	P	P
1	1	A	A	Q	Q
2	2	B	B	R	R
3	3	C	C	S	S
4	4	D	D	T	T
5	5	E	E	U	U
6	6	F	F	V	V
7	7	G	G	W	W
8	8	H	H	X	X
9	9	I	I	Y	Y
:	blank	J	J	Z	Z
;	(arrow 1 downwd.)	K	K	[	(no admittance)
<	(arrow 1 upward)	L	L	\	(overloaded)

8.2 Displayable characters of normal texts

To display normal texts and supplementary texts on the floors or for special inputs the following set of characters is available:

Table 11:
Table of
symbols
Supplementary
texts

Space	0	@	P	Ü	p	End identific.
!	1	A	Q	a	q	
"	2	B	R	b	r	
#	3	C	S	c	s	
\$	4	D	T	d	t	
%	5	E	U	e	u	
&	6	F	V	f	v	
'	7	G	W	G	w	
(	8	H	X	H	x	
)	9	I	Y	I	y	
*	:	J	Z	J	z	
+	;	K	[	K	ä	
,	<	L	\	L	ö	
-	=	M	]	M	ü	
.	>	N	Ä	N	ß	
/	?	O	Ö	O	°	

8.3 Parameters



„Exclusive“ means:

If the travel continuation arrow shall be displayed, the floor indication will disappear for this period of time and arrows will be shown all over the width of the display. This operating mode improves the perception of the arrows by users waiting in front of the lifts, particularly in case of group lifts.

The maximum number of characters of all texts is 496.

The maximum number of characters of one text is shown in the table below.

Table 12:
Parameter

No	Designation	Index area and setting	Parameter range and setting
General			
00	Display splitting <i>Software variant A and D</i> <i>Software variant Version B</i> <i>Software variant Version C</i>	-	0: Floor indicator left / arrows right, Supplementary floor text below 1: Floor indicator right / arrows left, Supplementary floor text below 2: Floor indicator / arrows exclusive, Supplementary floor text below 3: Floor indicator left / arrows right, Supplementary floor text above 4: Floor indicator right / arrows left, Supplementary floor text above 5: Floor indicator / arrows exclusive, Supplementary floor text above 0: Floor indicator left / arrows right 1: Floor indicator right / arrows left 2: Floor indicator / arrows exclusive 0: Floor indicator above / arrows below, Supplementary floor text middle 1: Floor indicator middle / arrows below, Supplementary floor text above 2: Floor indicator/ arrows exclusively below, Supplementary floor text above 3: Floor indicator below / arrows above, Supplementary floor text middle 4: Floor indicator middle / arrows above, Supplementary floor text below 5: Floor indicator / arrows exclusively above, Supplementary floor text below 6: Floor indicator above / arrows below 7: Floor indicator below / arrows above 8: Floor indicator / arrows exclusive
01	Display intensity	-	0 ... 8: dark ... light (observe the power consumption!)
02	Display is on entrance side:	-	0: Side A 1: Side B The display reacts only upon inputs of gong and travel continuation arrows at the entrance side.
03	Display is on floor level:	-	0: switched off 1 ... 63: level 1-63 The display reacts only upon inputs of gong and travel continuation arrows if the active Gray code corresponds with the set level.
04	Scrolling speed of the texts	-	0 ... 15: fast ... slowly
05	Blinking frequency	-	0 ... 7: fast ... slowly

Floor position indicator			
06	No. entrances used (Gray code)	-	0 ... 6: none ... all
07	Scrolling speed upon change of floor	-	0: jumps 1 ... 15: fast ... slow
08	Scrolling direction	-	0: normal 1: opposite
09	Contents of text	00-63: level	Version A: max. 5 characters per level Version B / C: max. 2 characters per level Version D: max. 5 characters per level (displayable characters see Table 10)
Supplementary floor text			
10	Contents of text	00-63: level	max. 32 characters per level (displayable characters see Table 11)
11	Text always scrolling	-	0: off 1: on
Arrows			
12	Indication of travel direction or continuation of travel?	-	0: direction indicator (indicates always, independent of the position of indicator resp. lift) 1: travel continuation indicator (indicates when the lift is on the same level as the indicator)
13	Arrow symbol	-	0: filled-in triangle 1: narrow arrow
14	Scrolling speed	-	0: off 1 ... 15: fast ... slow
15	Travel input (arrows scrolling with input active)	-	0: off 1 ... 16: input 1 ... 16 (see Table 3, Table 4, Table 8 and Table 9)
Special inputs			
16	Available?	00: Overload 01-04: Special input 1-4	0: no 1: yes
17	Input inverted?	00: Overload 01-04: Special input 1-4	0: not inverted (+24V = input active) 1: inverted (0V or open = input active)
18	Superseding floor indicator and direction indicator	00: Overload 01-04: Special input 1-4	0: yes, indication of the special input over the whole display 1: no, indication instead of the supplementary floor text
19	Blinking?	00: Overload 01-04: Special input 1-4	0: no 1: yes
20	Always scrolling?	00: Overload 01-04: Special input 1-4	0: no 1: yes
21	Contents of the text	00: Overload 01-04: Special input 1-4	max. 32 characters per input (displayable characters see Table 11)

9 Test mode

If both keys are pressed when the display is switched on it will be set into a test mode where all dot matrix LEDs are activated. This function is for the check of the display unit.

Attention: high current consumption!

By switching ON/OFF the voltage supply, the test mode will be quitted.