INSTRUCTION MANUAL DAAB OUTPUT CARD DB410





Technical data

Dimensions (WxHxD)	44 x 90 x 24 mm
Temperature range	0 to 50°C
Indications	6x LEDs
Outputs	6 relay outputs max 6 A resistive load per relay output with 230 VAC or 2 A for 24 VDC
Degree of protection	The circuit board is intended for internal installation in an enclosure

Safety instructions

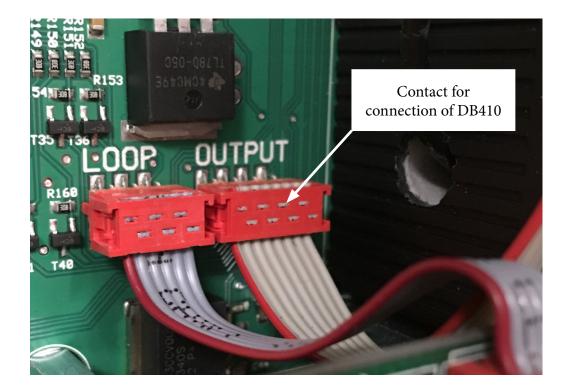
See instruction manual for automatic control unit EP104 or EP105.

General description

The DB410 is an add-in card to obtain 6x outputs on the automatic control unit. All the outputs have programmable function. Output functions are set on the automatic control unit. The status of the outputs indicated by LEDs installed at the top of the card. A lit LED indicates closed function.

Installation

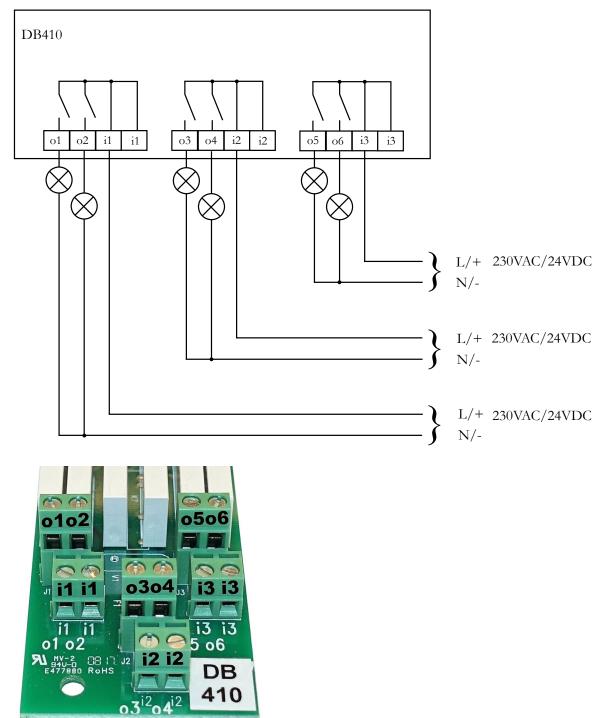
- 1. Discharge any static charge in your body by touching an earthed connection before starting installation.
- 2. Disconnect power to the automatic control unit.
- 3. Screw the DB410 card into place on the spacers on the automatic control unit using two M4x6 screws.
- 4. Connect cable to "OUTPUT" contact.
- 5. Connect the card as described in Connection.



Connection

If extra low voltage is used together with low voltage, cables connected to groups i1, o1, o2 and i2, o3, o4 and i3, o5, o6 must be secured with cable ties as close to the terminal as possible.

Connection must be performed by a qualified technician.



When the card has been installed and connected, the power supply to the automatic control unit can be switched on.

NOTE! Channel selection for flashing function must not be used in combination with this card but only together with DB407 with triac.

Functions using add-in card DB410

With DB410 installed there is access to six programmable relay outputs. These outputs are grouped into three groups with two common positions. Note that the positions located closest to the printed circuit board on each terminal are the common positions. These positions are marked i1, i2 and i3. The outputs are the upper terminal positions. Display of the o-channels in EP105 is determined by the setting in channels C707 and C710.

Functions of programmable outputs 1 - 6

The instructions are identical for all six programmable outputs, apart from the channel number – output 1 has channel number o1nn, output 2 has channel number o2nn, etc.

The settings below are for output 1.

Activate programmable output 1 by setting o100 to the desired function. A value of 0 means that the output is disabled (open) regardless of the settings of other channels.

If you set the value to 1, the output can be used as a traffic light signal based on the position indication. Movement and warning time signals are also available with this setting. The value 2 is for presence detection in the vehicle loop, the value 3 is for motor locks, and the value four turns the output into an alarm output.

Channel o110 Open position

Set to 1 for a constant signal in the open position.

Channel o111 Mid position Set 1 to obtain constant signal in mid position.

Channel o112 Closed position Set 1 to obtain constant signal in closed position.

Example for a green light: 0110 = 1, 0111 = 0, 0112 = 0. Example for a red light: 0110 = 0, 0111 = 1, 0112 = 1.

Channel o113 Movement

Use this channel to specify function during movement. The function will be active as soon as the door starts moving. See the channel reference for the available options. Only output 4 is able to send a flashing signal.

Channel o114 Delayed switch-off

Indicated time delays disabling of the output. Can be used to let lighting be on for a certain time after the door has left the open position. Let ol10 turn on the lighting when the door has reached the open position. When the door closes and leaves the open position, the lighting will remain on during the time in ol14.

Channel o120 Pre-warning time before start.

Settable time 0.0 - 600.0 seconds, 0.0 means closed. Which function is to be warned is selected in o121.

Channel o121 Pre-warning function in combination with channel o120 Set value 1 to obtain constant signal before automatic close, 2 to obtain constant signal before park and automatic close, 3 to obtain constant signal before close signal, park and automatic close, 4 for signal before all control signals.

Channel o122 Function during pre-warning

Select 1 if the output signal is to be disabled during pre-warning in any output.

Select 2 if the output is to continue to indicate position regardless of warning.

Channel o130 Delay for alarms specified in o131 and o132. The alarm is delayed by the set time of 0.0 - 600.0 seconds. The factory setting is 0.0. When errors according to o131 - o142 cases, the output signal, the alarm, also ceases. There is no alarm acknowledgement.

Channel o131-o142 Alarm in different conditions

If it is set to 1, the output gives a signal when the condition, according to the channel specification, has been fulfilled for longer than the time set in o130.

Select the output to be normally open or normally closed by setting channel o183 to: The value 1 is for normally open (NO) and the value 2 is for normally closed (NC).

Channel o191 Function when LOOP1, LOOP2 or PHOTO are activated: Used to set the presence detection required from the vehicle loop. See the channel reference for the available options.

Function of programmable output 4

There is an alternative in channel o410-o413 for flashing function for this output, but together with this card, DB410, these alternatives may **not** be programmed, as the relay is not designed for flashing function. If this alternative is nevertheless selected, the card will suffer permanent damage! DB407 must be selected for flashing function.



• Deactivation of fence alarm or other alarm equipment.

Outputs o1 or 2 are available for fence alarms. Note that i1+i1 are two common inputs for o1 and o2. If there is a voltage drop, these outputs are open, NO. Remember that the outputs must be connected so that the fence alarm is activated if a cable is detached, there is a break in a cable or the automatic control unit loses its power supply. Specify the following settings to use output 1 for fence alarm.

- o100 = 1, Position indication.
- o110 = 1, Signal in open position.
- o111 = 1, Signal in mid position.
- o113 = 3, Signal in opening/closing movement.
- o114 = Delay in switch-off, at least 1 second according to alarm manufacturer's instructions.
- o120 = Warning test before start, according to the alarm manufacturer's instructions.
- o121 = 4, Constant signal before all movements.
- o122 = 2, Output signal as configured in o110-o113.

• Channel list, o-channels

Programmable output 1

No.	Nam	e	Range	Factory	Setting		
0100	Func	tion of output 1	0 - 4	1			
	0	Disabled					
	1	Position indication/Movement/Warning. Signal as co	onfigured in o110 – o122				
	2	Presence detection/Direction sensing. Signal as conf	igured in o191				
	3	Lock					
	4	4 Alarm output. Signal as configured in o114, o130 – o142					
o110	Oper	n position	0 - 1	1			
	0	Disabled					
	1	Constant signal					
o111	Mid	position	0 - 1	0			
	0	Disabled					
	1	Constant signal					
0112	Clos	ed position	0 - 1	0			
	0	Disabled					
	1	Constant signal					
o113	Movement 0 - 4 4						
	0	Disabled					
	1	Constant signal in the opening movement					
	2	Constant signal in the closing movement					
	3	Constant signal in the opening and closing movement					
	4	4 No signal during movement, used in combination with o110, o111 and o112.					
0114	Used	yed switch-off. Switch off after the specified time. for example for lighting that is switched off a fied time after closing.	000.0-600.0 seconds	000.0			
o120	Pre-v	warning time before start	000.0-600.0 seconds	000.0			
0121	Pre-v	warning function in combination with o120	1 - 4	2			
	1	Constant signal before automatic closing					
	2	Constant signal before park and automatic closing					
	3	Constant signal before close signal, park and automatic closing					
	4	Constant signal before all movements					
0122	Func	tion during pre-warning time in other output	1 - 2	1			
	1	Output signal disabled					
	2	Output signal as configured in o110-o112					

No.	Name	Range	Factory Setting		
o130	Alarm delay. Alarm in channels o131 – o142 must be active in this time to produce output signal.	e 000.0-600.0 seconds	000.0		
o131	Alarm if pressed safety edge.	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o132	Alarm for critical error message in display	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o133	Alarm if stop circuit interrupted	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o134	Alarm if door open	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o135	Alarm if door is in mid position	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o136	Alarm if door is in closed position0 - 10				
	0 Disabled				
	1 Constant signal				
o137	Alarm if vehicle loop 1 is activated	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o138	Alarm if vehicle loop 2 is activated	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o139	Alarm if photocell interrupted	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o142	Alarm for uncritical error message in display. E008, E015, E028, E046, E047, E048, E201, E202, E206, E207, E931, E932	0 - 1	0		
	0 Disabled				
	1 Constant signal				
o183	Selection of contact function for output	1 - 2	1		
	1 Normally open, NO		· · · · · · · · · · · · · · · · · · ·		
	2 Normally closed, NC				

No.	Nan	ne Range Factory Setting
o191	Fun	ction when LOOP2, LOOP2 or PHOTO is activated 01 - 14 01
	01	Presence detection. Signal when LOOP1 is activated, remains until LOOP1 is clear.
	02	Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.
	03	Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.
	04	Presence detection. Signal when PHOTO is activated, remains until PHOTO is clear.
	05	Presence detection. Signal when PHOTO and LOOP1 are activated, remains until either PHOTO or LOOP1 is clear.
	06	Presence detection. Signal when PHOTO and LOOP2 are activated, remains until either PHOTO or LOOP2 is clear.
	07	Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO, LOOP1 or LOOP2 is clear.
	08	Presence detection. Signal when either LOOP1 or LOOP2 is activated, remains until either LOOP1 or LOOP2 is clear.
	09	Direction sensing. Signal when first LOOP1 and then LOOP2 are activated. The signal remains until LOOP2 is clear.
	10	Direction sensing. Signal when first LOOP1 and then PHOTO are activated. The signal remains until PHOTO is clear.
	11	Direction sensing. Signal when first LOOP2 and then LOOP1 are activated. The signal remains until LOOP1 is clear.
	12	Direction sensing. Signal when first LOOP2 and then PHOTO are activated. The signal remains until PHOTO is clear.
	13	Direction sensing. Signal when first PHOTO and then LOOP1 are activated. The signal remains until LOOP1 is clear.
	14	Direction sensing. Signal when first PHOTO and then LOOP2 are activated. The signal remains until LOOP2 is clear.

Programmable output 2

No.	Nan	ne	Range	Factory	Setting		
o200	Fund	ction of output 2	0 - 4	1			
	0	Disabled		•			
	1	Position indication/Movement/Warning. Signal as conf	figured in o210 – o222				
	2 Presence detection/Direction sensing. Signal as configured in o291						
	3	Lock					
	4	Alarm output. Signal as configured in o214, o230 – o24	2				
o210	Ope	n position	0 - 1	0			
	0 Disabled						
	1	Constant signal					
o211	Mid	position	0 - 1	0			
	0 Disabled						
	1	Constant signal					
o212	Closed position 0 - 1 1						
	0	Disabled					
	1	Constant signal					
o213	Mov	rement	0 - 4	4			
	0 Disabled						
	1						
	2 Constant signal in the closing movement						
	3						
	4 No signal during movement, used in combination with o210, o211 and o212.						
o214	for e	yed switch-off. Switch off after the specified time. Used example for lighting that is switched off a specified time closing.	000.0-600.0 seconds	000.0			
o220	Pre-	warning time before start	000.0-600.0 seconds	000.0			
o221	Pre-	warning function in combination with o220	1 - 4	2			
	1	Constant signal before automatic closing		•			
	2	2 Constant signal before park and automatic closing					
	3	3 Constant signal before close signal, park and automatic closing					
	4	Constant signal before all movements					
o222	Fund	ction during pre-warning time in other output	1 - 2	1			
	1	Output signal disabled					
	2	Output signal as configured in o210-o212					

No.	Nam	ne	Range	Factory	Setting
o230			000.0-600.0 seconds	000.0	
0231	230Alarm delay. Alarm in channels $o231 - o242$ must be active in this time to produce output signal.000.0-600.0 seconds000.0231Alarm if pressed safety edge.0 - 100Disabled001Constant signal0 - 10232Alarm for critical error message in display0 - 100Disabled0001Constant signal000233Alarm if stop circuit interrupted0 - 100Disabled0101Constant signal010234Alarm if door open0 - 100Disabled0101Constant signal010235Alarm if door is in mid position0 - 100Disabled0101Constant signal010	0			
	0	Disabled		^	
	1	Constant signal			
0232	Alar	m for critical error message in display	0 - 1	0	
				•	•
	1	Constant signal			
0233	Alar	m if stop circuit interrupted	0 - 1	0	
	0	Disabled		*	
	1	Constant signal			
0234	Alar	m if door open	0 - 1	0	
	0	Disabled			
	1	Constant signal			
0235	Alar	m if door is in mid position	0 - 1	0	
	0	Disabled		•	•
	1	Constant signal			
0236	Alar	m if door is in closed position	0 - 1	0	
0230	0	Disabled		•	•
	1	Constant signal			
0237	Alar	m if vehicle loop 1 is activated	0 - 1	0	
	0	Disabled		•	•
	1	Constant signal			
o238	Alar	m if vehicle loop 2 is activated	0 - 1	0	
	0	Disabled	•		
	1	Constant signal			
0239	Alar	m if photocell interrupted	0 - 1	0	
	0	Disabled	•		
	1	Constant signal			
0242	E008	m for uncritical error message in display. 5, E015, E028, E046, E047, E048, E201, E202, E206, 7, E931, E932	0 - 1	0	
	0	Disabled			
	1	Constant signal			
0283	Selec	tion of contact function for output	1 - 2	1	
	1	Normally open, NO		<u> </u>	·
	2	Normally closed, NC			

No.	Nan	ne	Range	Factory	Setting	
o291	Fun	ction when LOOP2, LOOP2 or PHOTO is activated	01 - 14	01		
	01	Presence detection. Signal when LOOP1 is activated, re	mains until LOOP1 is cl	ear.	~	
	02	Presence detection. Signal when LOOP2 is activated, re	mains until LOOP2 is cl	ear.		
	03	Presence detection. Signal when both LOOP1 and LOC LOOP1 or LOOP2 is clear.)P2 are activated, remain	s until eith	ner	
	04	Presence detection. Signal when PHOTO is activated, r	emains until PHOTO is	clear.		
	05	Presence detection. Signal when PHOTO and LOOP1 a LOOP1 is clear.	re activated, remains un	til either P	HOTO or	
	06	Presence detection. Signal when PHOTO and LOOP2 a LOOP2 is clear.	re activated, remains un	til either P	HOTO or	
	07	07 Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO, LOOP1 or LOOP2 is clear.				
	08	Presence detection. Signal when either LOOP1 or LOO or LOOP2 is clear.	P2 is activated, remains	until eithe	r LOOP1	
	09	Direction sensing. Signal when first LOOP1 and then L LOOP2 is clear.	OOP2 are activated. The	signal ren	nains until	
	10	10 Direction sensing. Signal when first LOOP1 and then PHOTO are activated. The signal remains until PHOTO is clear.				
	11 Direction sensing. Signal when first LOOP2 and then LOOP1 are activated. The signal remains unti LOOP1 is clear.					
	12	Direction sensing. Signal when first LOOP2 and then P until PHOTO is clear.	HOTO are activated. Th	e signal re	mains	
	13	Direction sensing. Signal when first PHOTO and then I until LOOP1 is clear.	LOOP1 are activated. Th	e signal re	mains	
	14	Direction sensing. Signal when first PHOTO and then I until LOOP2 is clear.	LOOP2 are activated. Th	e signal re	mains	

Programmable output 3

No.	Nar	ne	Range	Factory Setting				
o300	Fun	ction of output 3	0 - 4	1				
	0	Disabled	•	<u> </u>				
	1	Position indication/Movement/Warning. Signal as	configured in o310 – o322	2				
	2 Presence detection/Direction sensing. Signal as configured in o391							
	3							
	4	Alarm output. Signal as configured in o314, o330 -	0342					
o310	Ope	en position	0 - 1	1				
	0	Disabled						
	1	Constant signal						
o311	Mid	position	0 - 1	0				
	0	Disabled						
	1	Constant signal						
o312	Clos	sed position	0 - 1	0				
	0	Disabled						
	1	Constant signal						
o313	Mov	vement	0 - 4	4				
0010	0	Disabled	0 1	1				
	1							
	2							
	3							
	4							
o314	Use	ayed switch-off. Switch off after the specified time. d for example for lighting that is switched off a cified time after closing.	000.0-600.0 seconds	000.0				
o320	Pre-	warning time before start	000.0-600.0 seconds	000.0				
o321	Pre-	warning function in combination with o320	1 - 4	2				
	1	Constant signal before automatic closing	•					
	2	Constant signal before park and automatic closing						
	3	Constant signal before close signal, park and automatic closing						
	4	Constant signal before all movements						
o322	Fun	ction during pre-warning time in other output	1 - 2	1				
	1	Output signal						
	2	Signal as configured in o310-o312						

No.	Nan	ne	Range	Factory Setting		
o330		m delay. Alarm in channels o331 – o242 must be active his time to produce output signal.	000.0-600.0 seconds	000.0		
0331	Alar	m if pressed safety edge.	0 - 1	0		
	0	Disabled				
	1	Constant signal				
o332	Alar	m for critical error message in display	0 - 1	0		
	0	Disabled				
	1	Constant signal				
o333	Alar	m if stop circuit interrupted	0 - 1	0		
	0	Disabled				
	1	Constant signal				
o334	Alar	m if door open	0 - 1	0		
	0	Disabled	·			
	1	Constant signal				
0335	Alar	m if door is in mid position	0 - 1	0		
	0	Disabled				
	1	Constant signal				
0336	Alarm if door is in closed position0 - 10					
	0	Disabled				
	1	Constant signal				
o337	Alar	m if vehicle loop 1 is activated	0 - 1	0		
	0 Disabled					
	1	Constant signal				
0338	Alar	m if vehicle loop 2 is activated	0 - 1	0		
	0	Disabled				
	1	Constant signal				
0339	Alar	m if photocell interrupted	0 - 1	0		
	0	Disabled				
	1	Constant signal				
o342	E008	m for uncritical error message in display. 8, E015, E028, E046, E047, E048, E201, E202, E206, 7, E931, E932	0 - 1	0		
	0	Disabled				
	1	Constant signal				
0383	Selee	ction of contact function for output	1 - 2	1		
	1	Normally open, NO	·	· · · · · · · · · · · · · · · · · · ·		
	2	Normally closed, NC				

* =Only when o300 is set to 4.

No.	Nam	ne Range Factory Setting			
o391	Fund	ction when LOOP2, LOOP2 or PHOTO is activated 01 - 14 01			
	01	Presence detection. Signal when LOOP1 is activated, remains until LOOP1 is clear.			
	02	Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.			
	03	Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.			
	01Presence detection. Signal when LOOP1 is activated, remains until LOOP1 is clear.02Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.03Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.04Presence detection. Signal when PHOTO is activated, remains until PHOTO is clear.05Presence detection. Signal when PHOTO and LOOP1 are activated, remains until either PHOTO or LOOP1 is clear.06Presence detection. Signal when PHOTO and LOOP2 are activated, remains until either PHOTO or LOOP1 is clear.07Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO or LOOP2 is clear.08Presence detection. Signal when either LOOP1 or LOOP2 is activated, remains until either LOOP1 or LOOP2 is clear.09Direction sensing. Signal when first LOOP1 and then LOOP2 are activated. The signal remains until LOOP2 is clear.10Direction sensing. Signal when first LOOP1 and then PHOTO are activated. The signal remains until PHOTO is clear.11Direction sensing. Signal when first LOOP2 and then LOOP1 are activated. The signal remains until PHOTO is clear.12Direction sensing. Signal when first LOOP2 and then PHOTO are activated. The signal remains until PHOTO is clear.13Direction sensing. Signal when first PHOTO and then LOOP1 are activated. The signal remains until PHOTO is clear.				
	05				
	06				
	07	e			
	08				
	09				
	10				
	11				
	12				
	13	Direction sensing. Signal when first PHOTO and then LOOP1 are activated. The signal remains until LOOP1 is clear.			
	14	Direction sensing. Signal when first PHOTO and then LOOP2 are activated. The signal remains until LOOP2 is clear.			

Programmable output 4

Note that the display of the o-channels is determined by the setting in C707 and C710 for EP105

No.	Nan	e display of the o-channels is determined by the	Range	Factory				
o400	Fun	ction of output 4	0 - 4	0				
0100	0	Disabled	0 1	U				
	1 Position indication/Movement/Warning. Signal as configured in o410 – o422							
	2	Presence detection/Direction sensing. Signal as configu	<u> </u>					
	3							
	4	Alarm output Signal as configured in 0414, 0430 - 0442	2					
o410	One	n position	0 - 2	0				
0110	0	Disabled	0 2	U				
	1	Constant signal						
	2*	Flashing signal, invalid selection for DB410						
	+].				
o411		position	0 - 2	1				
	0	Disabled						
	1	Constant signal						
	2*	Flashing signal, invalid selection for DB410	1					
o412	Clos	ed position	0 - 2	1				
	0	Disabled						
	1	Constant signal						
	2*	Flashing signal, invalid selection for DB410						
o413	Mov	ement	0 - 7	0				
	0	Disabled						
	1	Constant signal in the opening movement						
	2	Constant signal in the closing movement						
	3	Constant signal in the opening and closing movement						
	4							
	5*	5* Flashing signal in opening movement, invalid selection for DB410						
	6*	5* Flashing signal in closing movement, invalid selection for DB410						
	7*	Flashing signal in opening and closing movement, inva	lid selection for DB410					
o414	Dela	yed switch-off. Switch off after the specified time. Used	000.0-600.0 seconds	000.0				
		xample for lighting that is switched off a specified time						
	after	closing.		<u> </u>				
o420	Pre-	warning time before start	000.0-600.0 seconds	000.0				
o421	Pre-	warning function in combination with o420	1 - 8	2				
	1	Constant signal before automatic closing						
	2	Constant signal before park and automatic closing						
	3	Constant signal before close signal, park and automatic	closing					
	4	Constant signal before all movements						
	5*	Flashing signal before automatic closing, invalid selection	on for DB410					
	6*	Flashing signal before park and automatic closing, inva	lid selection for DB410					
	7*	Flashing signal before close signal, park and automatic	closing, invalid selection	n for DB410)			
	8*	Flashing signal before all signals, invalid selection for E	B410					

* WARNING! This setting is possible, but **NOT** permitted! Selecting it means that the relay output will cease to function. The channel selection for flashing function may be used only together with DB407.

No.	Name	Range	Factory Setting				
o422	Function during pre-warning time in other output	1 - 2	1				
0 122	1 Output signal disabled		-				
	2 Output signal as configured in o410-o412						
o423	Flashing frequency	0.1-2.0 seconds	0.5				
o430	Alarm delay. Alarm in channels o431 – o442 must be active in this time to produce output signal.	000.0-600.0 seconds	000.0				
0431		0 1					
0431	Alarm if pressed safety edge. 0 - 1 0 0 Disabled						
	1 Constant signal						
o432		0 - 1	0				
0432	Alarm for critical error message in display0Disabled	0 - 1	0				
	1 Constant signal						
0433	Alarm if stop circuit interrupted	0 - 1	0				
0433	0 Disabled	0-1	0				
	1 Constant signal						
o434	Alarm if door open	0 - 1	0				
0434	0 Disabled	0-1	0				
	1 Constant signal						
a 12E		0 1	0				
0435	Alarm if door is in mid position0Disabled	0 - 1	0				
	1 Constant signal						
126							
0436	Alarm if door is in closed position0Disabled	0 - 1	0				
	1 Constant signal						
0437	Alarm if vehicle loop 1 is activated	0 - 1	0				
	0 Disabled 1 Constant signal						
	0		1 1				
o438	Alarm if vehicle loop 2 is activated	0 - 1	0				
	0 Disabled						
	1 Constant signal		 TT				
o439	Alarm if photocell interrupted	0 - 1	0				
	0 Disabled						
	1 Constant signal						
0442	Alarm for uncritical error message in display. E008, E015, E028, E046, E047, E048, E201, E202, E206, E207, E931, E932	0 - 1	0				
	0 Disabled	I	1 1				
	1 Constant signal						
0483	Selection of contact function for output	1 - 2	1				
0105	1 Normally open, NO		≛				

No.	Nan	le	Range	Factory	Setting				
0491	Fun	ction when LOOP2, LOOP2 or PHOTO is activated	01 - 14	01					
	01	Presence detection. Signal when LOOP1 is activated, re	emains until LOOP1 is cl	ear.	o				
	02	Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.							
	03	03 Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.							
	04	4 Presence detection. Signal when PHOTO is activated, remains until PHOTO is clear.							
	05	Presence detection. Signal when PHOTO and LOOP1 a LOOP1 is clear.	are activated, remains un	til either P	HOTO or				
	06	Presence detection. Signal when PHOTO and LOOP2 a LOOP2 is clear.	are activated, remains un	til either P	HOTO or				
	07	Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO, LOOP1 or LOOP2 is clear.							
	08	Presence detection. Signal when either LOOP1 or LOO or LOOP2 is clear.	P2 is activated, remains	until eithe	r LOOP1				
	09	Direction sensing. Signal when first LOOP1 and then L LOOP2 is clear.	OOP2 are activated. The	signal ren	nains until				
	10	Direction sensing. Signal when first LOOP1 and then P until PHOTO is clear.	PHOTO are activated. Th	e signal re	mains				
	11	Direction sensing. Signal when first LOOP2 and then L LOOP1 is clear.	OOP1 are activated. The	signal ren	nains until				
	12	Direction sensing. Signal when first LOOP2 and then PHOTO are activated. The signal remains until PHOTO is clear.							
	13	Direction sensing. Signal when first PHOTO and then a until LOOP1 is clear.	LOOP1 are activated. Th	e signal re	mains				
	14	Direction sensing. Signal when first PHOTO and then a until LOOP2 is clear.	LOOP2 are activated. Th	e signal re	mains				

Programmable output 5

No.	Nam	ne	Range	Factory	Setting			
o500	Fund	ction of output 1	0 - 4	0				
	0	Disabled						
	1	1 Position indication/Movement/Warning. Signal as configured in o510 – o522						
	2 Presence detection/Direction sensing. Signal as configured in o591							
	3	3 Lock						
	4 Alarm output. Signal as configured in o514, o530 – o542							
o510	Ope	n position	0 - 1	0				
	0	Disabled						
	1	Constant signal						
o511	Mid	position	0 - 1	0				
	0	Disabled	·					
	1	Constant signal						
0512	Clos	ed position	0 - 1	0				
	0	Disabled		_				
	1	Constant signal						
0513	Mov	rement	0 - 4	4				
	0	Disabled						
	1							
	2							
	3	3 Constant signal in the opening and closing movement						
	4 No signal during movement, used in combination with o510, o511 and o512.							
0514	Delayed switch-off. Switch off after the specified time.000.0-600.0 seconds000.0Used for example for lighting that is switched off a specified time after closing.000.0000.0							
o520	Pre-	warning time before start	000.0-600.0 seconds	000.0				
o521	Pre-warning function in combination with o520		1 - 4	2				
	1	Constant signal before automatic closing	·	•				
	2	Constant signal before park and automatic closing						
	3	3 Constant signal before close signal, park and automatic closing						
	4 Constant signal before all movements							
o522	Function during pre-warning time in other output1 - 21							
	1	Output signal disabled during warning in other out	put					
	2	Output signal as configured in 0510-0512						

No.	Name	Range	Factory Setting			
0530	Alarm delay. Alarm in channels o531 – o542 must be active in this time to produce output signal.	e 000.0-600.0 seconds	000.0			
o531	Alarm if pressed safety edge.	0 - 1	0			
	0 Disabled					
	1 Constant signal					
o532	Alarm for critical error message in display	0 - 1	0			
	0 Disabled					
	1 Constant signal					
0533	Alarm if stop circuit interrupted	0 - 1	0			
	0 Disabled					
	1 Constant signal					
o534	Alarm if door open0 - 10					
	0 Disabled					
	1 Constant signal					
0535	Alarm if door is in mid position	0 - 1	0			
	0 Disabled	•				
	1 Constant signal					
0536	Alarm if door is in closed position0 - 10					
	0 Disabled	•				
	1 Constant signal					
o537	Alarm if vehicle loop 1 is activated	0 - 1	0			
	0 Disabled					
	1 Constant signal					
0538	Alarm if vehicle loop 2 is activated	0 - 1	0			
	0 Disabled	•				
	1 Constant signal					
0539	Alarm if photocell interrupted	0 - 1	0			
	0 Disabled					
	1 Constant signal					
o542	Alarm for uncritical error message in display. E008, E015, E028, E046, E047, E048, E201, E202, E206, E207, E931, E932	0 - 1	0			
	0 Disabled					
	1 Constant signal					
o583	Selection of contact function for output	1 - 2	1			
	1 Normally open, NO		· · ·			
	2 Normally closed, NC					

No.	Nam	ne Range Factory Setting					
o591	Fund	ction when LOOP2, LOOP2 or PHOTO is activated 01 - 14 01					
	01	Presence detection. Signal when LOOP1 is activated, remains until LOOP1 is clear.					
	02	Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.					
	03	Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.					
	04	Presence detection. Signal when PHOTO is activated, remains until PHOTO is clear.					
	05	Presence detection. Signal when PHOTO and LOOP1 are activated, remains until either PHOTO or LOOP1 is clear.					
	06	Presence detection. Signal when PHOTO and LOOP2 are activated, remains until either PHOTO or LOOP2 is clear.					
	07	Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO, LOOP1 or LOOP2 is clear.					
	08	Presence detection. Signal when either LOOP1 or LOOP2 is activated, remains until either LOOP1 or LOOP2 is clear.					
	09	Direction sensing. Signal when first LOOP1 and then LOOP2 are activated. The signal remains until LOOP2 is clear.					
	10	Direction sensing. Signal when first LOOP1 and then PHOTO are activated. The signal remains until PHOTO is clear.					
	11	Direction sensing. Signal when first LOOP2 and then LOOP1 are activated. The signal remains until LOOP1 is clear.					
	12	Direction sensing. Signal when first LOOP2 and then PHOTO are activated. The signal remains until PHOTO is clear.					
	13	Direction sensing. Signal when first PHOTO and then LOOP1 are activated. The signal remains until LOOP1 is clear.					
	14	Direction sensing. Signal when first PHOTO and then LOOP2 are activated. The signal remains until LOOP2 is clear.					

Programmable output 6

No.	Nan	ne	Range	Factory			
0600	Function of output 1		0 - 4	0			
	0	Disabled	-	•			
	1	1 Position indication/Movement/Warning. Signal as configured in o610 – o622					
	2	2 Presence detection/Direction sensing. Signal as configured in o691					
	3	Lock					
	4 Alarm output. Signal as configured in o614, o630 – o642						
0610	Open position		0 - 1	0			
	0	Disabled					
	1	Constant signal					
0611	Mid position		0 - 1	0			
	0	Disabled					
	1	Constant signal					
0612	Closed position		0 - 1	0			
	0	Disabled					
	1	Constant signal					
0613	Movement		0 - 4	4			
	0	Disabled	•				
	1	Constant signal in the opening movement					
	2						
	3	3 Constant signal in the opening and closing movement					
	4 No signal during movement, used in combination with o610, o611 and o612.						
0614	Delayed switch-off. Switch off after the specified time. Used for example for lighting that is switched off a specified time after closing.						
0620	Pre-	warning time before start	000.0-600.0 seconds	000.0			
0621	Pre-warning function in combination with o620		1 - 4	2			
	1	Constant signal before automatic closing	•				
	2	Constant signal before park and automatic closing					
	3	Constant signal before close signal, park and automatic closing					
	4 Constant signal before all movements						
0622	Function during pre-warning time in other output1 - 21						
	1	Output signal disabled					
	2	Output signal as configured in o610-o612					

No.	Name Range Factory Setting				Setting			
0630		m delay. Alarm in channels 0631 – 0642 must be e in this time to produce output signal.	000.0-600.0 seconds	000.0				
0631	Alar	m if pressed safety edge.	0 - 1	0				
	0 Disabled		•	^	•			
	1	Constant signal						
0632	Alar	m for critical error message in display	0 - 1	0				
	0	Disabled	•	•				
	1	Constant signal						
0633	Alar	m if stop circuit interrupted	0 - 1	0				
	0	Disabled		•	•			
	1	Constant signal						
0634	Alar	m if door open	0 - 1	0				
	0	Disabled	÷	•	•			
	1	Constant signal						
0635	Alar	m if door is in mid position	0 - 1	0				
	0	Disabled		•	•			
	1	Constant signal						
0636	Alar	m if door is in closed position	0 - 1	0				
	0	Disabled		•	•			
	1	Constant signal						
0637	Alar	m if vehicle loop 1 is activated	0 - 1	0				
	0	Disabled						
	1	Constant signal						
0638	Alar	m if vehicle loop 2 is activated	0 - 1	0				
	0	Disabled	•					
	1	Constant signal						
0639	Alar	m if photocell interrupted	0 - 1	0				
	0	Disabled						
	1	Constant signal						
0642	E008	m for uncritical error message in display. 5, E015, E028, E046, E047, E048, E201, E202, E206, 7, E931, E932	0 - 1	0				
	0	Disabled						
	1	Constant signal						
0683	Selec	tion of contact function for output	1 - 2	1				
	1	Normally open, NO		·				
	2	2 Normally closed, NC						

No.	Nar	ne	Range	Factory	Setting				
0691	Function when LOOP2, LOOP2 or PHOTO activated01 - 1401								
	01	Presence detection. Signal when LOOP1 is activated, re	mains until LOOP1 is cl	ear.					
	02	Presence detection. Signal when LOOP2 is activated, remains until LOOP2 is clear.							
	03	Presence detection. Signal when both LOOP1 and LOOP2 are activated, remains until either LOOP1 or LOOP2 is clear.							
	04	Presence detection. Signal when PHOTO is activated, remains until PHOTO is clear.							
	05	Presence detection. Signal when PHOTO and LOOP1 are activated, remains until either PHOTO or LOOP1 is clear.							
	06	6 Presence detection. Signal when PHOTO and LOOP2 are activated, remains until either PHOTO or LOOP2 is clear.							
	07	Presence detection. Signal when PHOTO, LOOP1 and LOOP2 are activated, remains until either PHOTO, LOOP1 or LOOP2 is clear.							
	08	Presence detection. Signal when either LOOP1 or LOO or LOOP2 is clear.	P2 is activated, remains	until eithe	r LOOP1				
	09	Direction sensing. Signal when first LOOP1 and then L LOOP2 is clear.	OOP2 are activated. The	signal ren	nains until				
	10	Direction sensing. Signal when first LOOP1 and then P until PHOTO is clear.	HOTO are activated. The	e signal re	mains				
	11	Direction sensing. Signal when first LOOP2 and then LOOP1 are activated. The signal remains until LOOP1 is clear.							
	12	Direction sensing. Signal when first LOOP2 and then PHOTO are activated. The signal remains until PHOTO is clear.							
	13	Direction sensing. Signal when first PHOTO and then LOOP1 are activated. The signal remains until LOOP1 is clear.							
	14	Direction sensing. Signal when first PHOTO and then I until LOOP2 is clear.	LOOP2 are activated. The	e signal re	mains				



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