

INSTRUCTION MANUAL

DAAB OUTPUT CARD DB407

*For automatic control unit DAAB EP104
with software version 4.07*

Revision: 1.1



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Technical data

Dimensions (WxHxD)	44x90x24 mm
Temperature range	0 to 50°C
Indications	6x LEDs
Outputs	1x triac output 0.75A, 24-230VAC 5x relay outputs max 6A resistive load per relay output at 230VAC or 2A at 24VDC
Degree of protection	The circuit board is intended for internal installation in an enclosure

Safety instructions

See operating manual for automatic control unit EP104.

General description

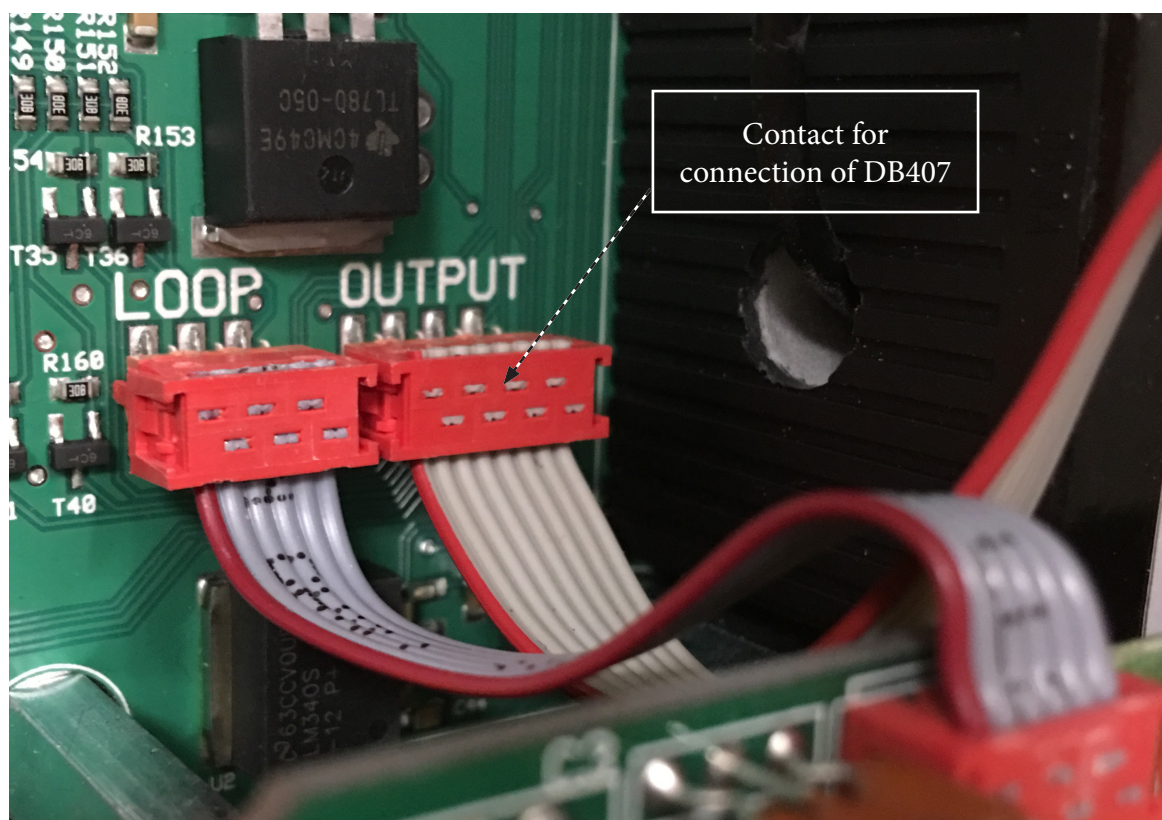
Add-in card to obtain 6x outputs on EP104. All the outputs have programmable function. Output functions are set on EP104.

If output o4 is used, the supply voltage must be of AC type, alternating current, as this output is of the triac type. Note that i2 is common to o3 and o4.

The status of the outputs indicated by LEDs installed at the top of the card. A lit LED indicates closed function.

Installation

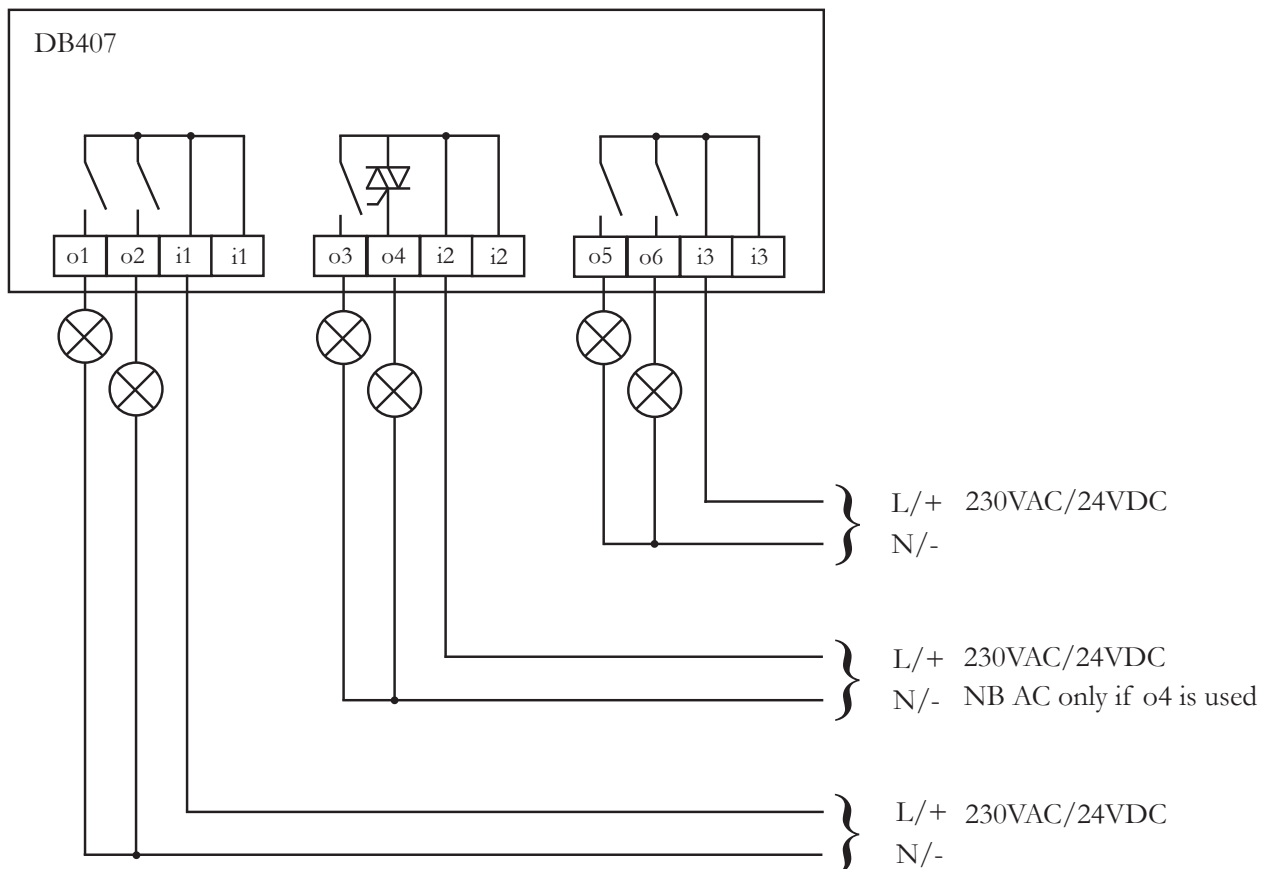
1. Discharge any static charge in your body by touching an earthed connection before starting installation.
2. Disconnect power to EP104
3. Screw the DB407 board into place on the spacers on the EP104 using two M4x6 screws.
4. Connect cable to "OUTPUT" cable.
5. Connect the board as described in Connection.



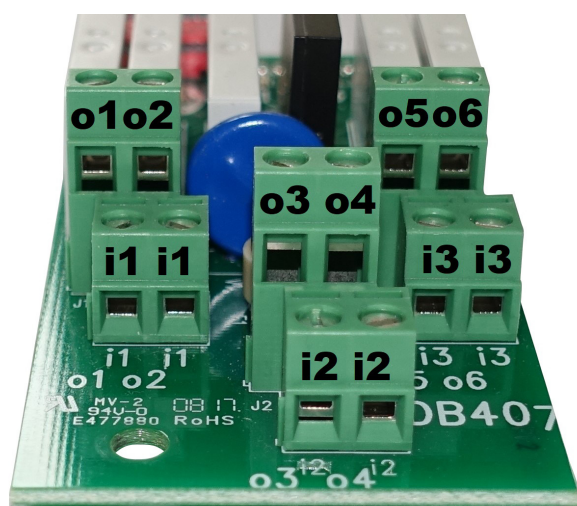
Connection

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 electrician.



💡 If o4 is used for AC and o3 is to be used for DC, o3 can control an interposing relay



When the board has been installed and connected, the power supply to EP104 can be switched on.

Functions using add-in card DB407

With DB410 installed there is access to five programmable relay outputs and one triac output. 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.

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: o110 = 1, o111 = 0, o112 = 0.

Example for a red light: o110 = 0, o111 = 1, o112 = 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 o120 Warning time before start

Settable time 0.00 – 9.59 minutes, where 0.0 means closed. Which function is to be warned is selected in o121.

Channel o121 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 warning

Select 1 if the output signal is to be disabled during storing in any output.

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

Channel o130 Delay for alarms specified in o131 and o132. The alarm is delayed by the set time of 0.00 – 9.59 minutes. The factory setting is 0.00.

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

In principle, programmable output 4 is the same as outputs 1, 2, 3, 5 and 6, except that it is a triac output. The settings are the same for outputs 1 to 6, except that the alternative for flashing signal only exists for output 4. See the channel reference for the channel settings.

- Fence alarm

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 EP104 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.	Name	Range	Factory	Setting
o100	Function of output 1	0 - 4	1	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o110 – o122		
	2	Presence detection/Direction sensing. Signal as configured in o191		
	3	Lock		
	4	Alarm output Signal as configured in o130 – o142		
o110	Open position	0 - 1	1	
	0	Disabled		
	1	Constant signal		
o111	Mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o112	Closed 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	No signal during movement, used in combination with o110, o111 and o112.		
o114	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o120	Warning time before start	0.00-9.59 minutes	0.00	
o121	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 signals		
o122	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Output signal as configured in o110-o113		

No.	Name	Range	Factory	Setting
o130*	Alarm if there is an error as configured in o131-o139. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o131*	Alarm for faulty safety edge. Time as in o130.	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 position	0 - 1	0	
	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	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o183	Inversion of contact function for output	1 - 2	1	
	1 Normally open, NO			
	2 Normally closed, NC			

* = Only when o100 is set to 4.

o191	Function when LOOP2, LOOP2 or PHOTO 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.	Name	Range	Factory	Setting
o200	Function of output 2	0 - 4	1	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o210 – o222		
	2	Presence detection/Direction sensing. Signal as configured in o291		
	3	Lock		
	4	Alarm output Signal as configured in o230 – o242		
o210	Open 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	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	No signal during movement, used in combination with o210, o211 and o212.		
o214	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o220	Warning time before start	0.00-9.59 minutes	0.00	
o221	Warning function in combination with o220	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 signals		
o222	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Output signal as configured in o210-o213		

No.	Name	Range	Factory	Setting
o230*	Alarm if there is an error as configured in o231-o239. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o231*	Alarm for faulty safety edge. Time as in o230.	0 - 1	0	
	0	Constant signal		
	1	Active		
o232*	Alarm for uncritical error message in display	0 - 1	0	
	0	Constant signal		
	1	Active		
o233*	Alarm if stop circuit interrupted	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o234*	Alarm if door open	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o235*	Alarm if door is in mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o236*	Alarm if door is in closed position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o237*	Alarm if vehicle loop 1 is activated	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o238*	Alarm if vehicle loop 2 is activated	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o239*	Alarm if photocell interrupted	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o242*	Alarm for uncritical error message in display	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o283	Inversion of contact function for output	1 - 2	1	
	1	Normally open, NO		
	2	Normally closed, NC		

* = Only when o200 is set to 4.

o291	Function when SL.1, SL.2 or photocell/loop 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 3

No.	Name	Range	Factory	Setting
o300	Function of output 3	0 - 4	1	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o310 – o322		
	2	Presence detection/Direction sensing. Signal as configured in o391		
	3	Lock		
	4	Alarm output Signal as configured in o330 – o342		
o310	Open position	0 - 1	1	
	0	Disabled		
	1	Constant signal		
o311	Mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o312	Closed position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o313	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	No signal during movement, used in combination with o310, o311 and o312.		
o314	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o320	Warning time before start	0.00-9.59 minutes	0.00	
o321	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 signals		
o322	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Signal as configured in o310-o313		

No.	Name	Range	Factory	Setting
o330*	Alarm if there is an error as configured in o331-o339. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o331*	Alarm for faulty safety edge. Time as in o330.	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o332*	Alarm for critical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o333*	Alarm if stop circuit interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o334*	Alarm if door open	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o335*	Alarm if door is in mid position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o336*	Alarm if door is in closed position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o337*	Alarm if vehicle loop 1 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o338*	Alarm if vehicle loop 2 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o339*	Alarm if photocell interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o342*	Alarm for uncritical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o383	Inversion of contact function for output	1 - 2	1	
	1 Normally open, NO			
	2 Normally closed, NC			

* = Only when o300 is set to 4.

o391	Function when SL.1, SL.2 or photocell/loop 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 4

No.	Name	Range	Factory	Setting
o400	Function of output 4	0 - 4	0	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o410 – o422		
	2	Presence detection/Direction sensing. Signal as configured in o491		
	3	Lock		
	4	Alarm output Signal as configured in o430 – o442		
o410	Open position	0 - 2	0	
	0	Disabled		
	1	Constant signal		
	2	Flashing signal		
o411	Mid position	0 - 2	1	
	0	Disabled		
	1	Constant signal		
	2	Flashing signal		
o412	Closed position	0 - 2	1	
	0	Disabled		
	1	Constant signal		
	2	Flashing signal		
o413	Movement	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	No signal during movement, used in combination with o410, o411 and o412.		
	5	Flashing signal in the opening movement		
	6	Flashing signal in the closing movement		
	7	Flashing signal in the opening and closing movement		
o414	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o420	Warning time before start	0.00-9.59 minutes	0.00	
o421	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 signals		
	5	Flashing signal before automatic closing		
	6	Flashing signal before park and automatic closing		
	7	Flashing signal before close signal, park and automatic closing		
	8	Flashing signal before all signals		

No.	Name	Range	Factory	Setting
o422	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Output signal as configured in o410-o413		
o423	Flashing frequency	0.1-2.0 seconds	0.5	
o430*	Alarm if there is an error as configured in o431-o439. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o431*	Alarm for faulty safety edge. Time as in o430.	0 - 1	0	
	0	Constant signal		
	1	Active		
o432*	Alarm for critical error message in display	0 - 1	0	
	0	Constant signal		
	1	Active		
o433*	Alarm if stop circuit interrupted	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o434*	Alarm if door open	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o435*	Alarm if door is in mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o436*	Alarm if door is in closed position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o437*	Alarm if vehicle loop 1 is activated	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o438*	Alarm if vehicle loop 2 is activated	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o439*	Alarm if photocell interrupted	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o442*	Alarm for uncritical error message in display	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o483	Inversion of contact function for output	1 - 2	1	
	1	Normally open, NO		
	2	Normally closed, NC		

* = Only when o400 is set to 4.

o491	Function when LOOP2, LOOP2 or PHOTO 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 5

No.	Name	Range	Factory	Setting
o500	Function of output 1	0 - 4	0	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o510 – o522		
	2	Presence detection/Direction sensing. Signal as configured in o591		
	3	Lock		
	4	Alarm output Signal as configured in o530 – o542		
o510	Open position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o511	Mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o512	Closed position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o513	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	No signal during movement, used in combination with o510, o511 and o512.		
o514	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o520	Warning time before start	0.00-9.59 minutes	0.00	
o521	Warning function in combination with o520	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 signals		
o522	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Output signal as configured in o510-o513		

No.	Name	Range	Factory	Setting
o530*	Alarm if there is an error as configured in o531-o539. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o531*	Alarm for faulty safety edge. Time as in o530.	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o532*	Alarm for critical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o533*	Alarm if stop circuit interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o534*	Alarm if door open	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o535*	Alarm if door is in mid position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o536*	Alarm if door is in closed position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o537*	Alarm if vehicle loop 1 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o538*	Alarm if vehicle loop 2 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o539*	Alarm if photocell interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o542*	Alarm for uncritical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o583	Inversion of contact function for output	1 - 2	1	
	1 Normally open, NO			
	2 Normally closed, NC			

* = Only when o500 is set to 4.

o591	Function when LOOP2, LOOP2 or PHOTO 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.	Name	Range	Factory	Setting
o600	Function of output 1	0 - 4	0	
	0	Disabled		
	1	Position indication/Movement/Warning. Signal as configured in o610 – o622		
	2	Presence detection/Direction sensing. Signal as configured in o691		
	3	Lock		
	4	Alarm output Signal as configured in o630 – o642		
o610	Open position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o611	Mid position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o612	Closed position	0 - 1	0	
	0	Disabled		
	1	Constant signal		
o613	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	No signal during movement, used in combination with o610, o611 and o612.		
o614	Delayed switch-off Switch off after the specified time For example to switch off lighting a specified time after closing	0.00-9.59 minutes	0.00	
o620	Warning time before start	0.00-9.59 minutes	0.00	
o621	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 signals		
o622	Function during warning time	1 - 2	1	
	1	Output signal disabled during warning in other output		
	2	Output signal as configured in o610-o613		

No.	Name	Range	Factory	Setting
o630*	Alarm if there is an error as configured in o631-o639. The alarm is activated for at least the time set in this channel.	0.00-9.59 minutes	0.00	
o631*	Alarm for faulty safety edge. Time as in o630.	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o632*	Alarm for critical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o633*	Alarm if stop circuit interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o634*	Alarm if door open	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o635*	Alarm if door is in mid position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o636*	Alarm if door is in closed position	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o637*	Alarm if vehicle loop 1 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o638*	Alarm if vehicle loop 2 is activated	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o639*	Alarm if photocell interrupted	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o642*	Alarm for uncritical error message in display	0 - 1	0	
	0 Disabled			
	1 Constant signal			
o683	Inversion of contact function for output	1 - 2	1	
	1 Normally open, NO			
	2 Normally closed, NC			

* = Only when o600 is set to 4.

o691	Function when LOOP2, LOOP2 or PHOTO 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.		



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