

INSTRUCTION MANUAL DAAB VEHICLE DETECTOR DB402









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Technical data

Dimensions (WxHxD) 33 x 80 x 20 mm

Temperature range 0 to 50°C

Inputs 2 inputs for vehicle loops

Indications 2x LEDs

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

DB402 is an add-in card for vehicle loops for EP104 and EP105 automatic control units. Two vehicle loops can be connected to this card. Function with activated loop is controlled by the d-channels in the automatic control unit. The vehicle sensor operates at two different frequencies, one for each loop.

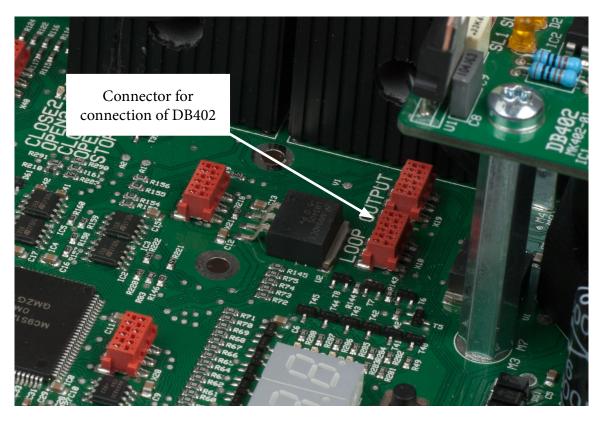




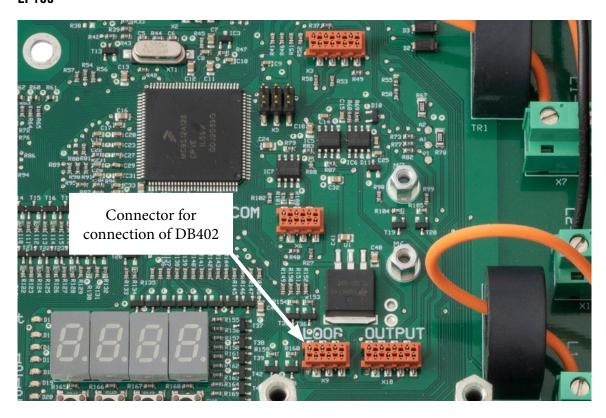
Installation of DB402

- 1. Discharge any static charge in your body by touching an earthed connection before handling PCB.
- 2. Disconnect the power to the automatic control unit.
- 3. Screw the DB402 card into place on the spacers on the automatic control unit using two M4x6 screws.
- 4. Connect cable to "LOOP" connector, see illustration below.
- 5. Connect loops as described under Connection on page 6.

EP104



EP105



3



Installation of vehicle loops for vehicle detector

General

The loop is made of RK 0.75-1.5 mm², heat-resistant to at least 90 degrees, and is coiled 2 or 3 times depending on the circumference of the loop. 3 coils for circumference up to 12 m, 2 for circumference over 12 m.

Best results are obtained if the loop and connector are not joined. If this is not possible, it is very important that the joint is fully electrically reliable and watertight. The connector can be made from the same cable as the loop and must be **twisted-pair** with at least 10 turns per metre between the loop and DB402. The connector may also be shielded twin cable.

Layout of the loop

See chapter "Suggested vehicle loop layout" page 5.

Channel for the loop

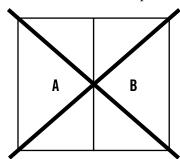
The loop is normally laid in a channel cut into the road surface. These channels are normally 5-7 mm wide and 35-50 mm deep. Corners must be truncated. The track must be clear of gravel, stones and water before the cable is laid in the channel. If necessary, the bottom of the track must be levelled to prevent future wear on the cable insulation. Take care when laying the loop to make sure that the insulation is not damaged. If necessary, fix the loop in place before backfilling the channel.

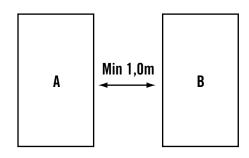
Before backfilling the channel, test the loop with the vehicle concerned.

Loop placement

To ensure good function, note the following:

- Minimum distance from moving metal objects such as door and gates: 1.0 metre.
- Minimum distance from stationary metal objects such as reinforcement steel: 50mm.
- The connection between the loop and the connector or joins must be completely watertight. Defects or damaged insulation result in an unstable magnetic field and unreliable operation.
- Heating cables must not be in the loop or run parallel with the loop.
- High-voltage cables close to the loop may disrupt operation.
- The channel for the loop must not contain any other cables.
- The minimum distance from other loops is 1.0 metre. Direction-sensing loops forming a figure-of-eight must not be connected to the DB402; the loops must be separated as illustrated below.





- Testing the loop
- Check that the loop and connection have electrical continuity. A series resistance of 0.5 Ω is normal more than 5 Ω indicates poor contact.
- It is important also to check the earthing of the loop and connection. Resistance to earth, measured at 500 V, must be greater than 10 M Ω (normally 500 M Ω).

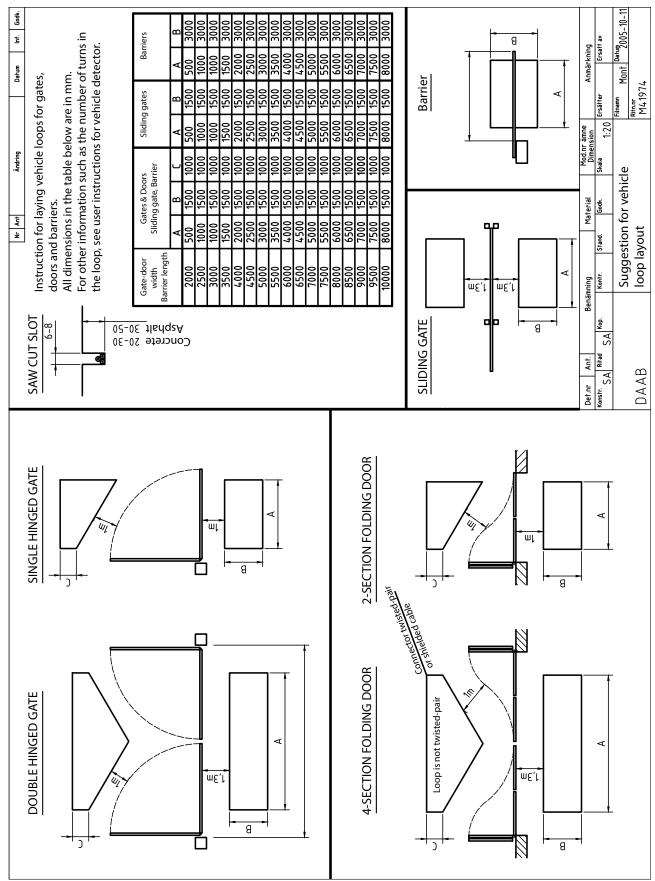
Other

The connector of a loop may be up to 150 metres long, but sensitivity decreases with increasing length.





Suggested vehicle loop layout







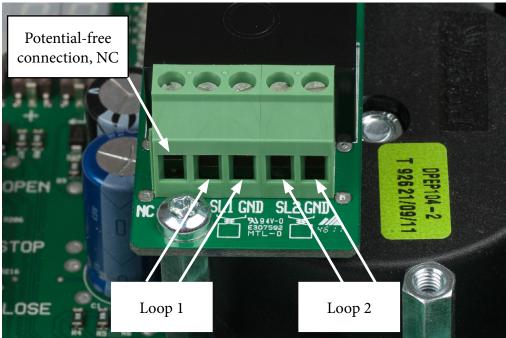
Connection of vehicle loops to DB402

If two loops are used, the one with the longest loop must be connected to input SL1. Note that installation must be carried out by a qualified electrician and that the power supply must be cut when connecting the connectors.

- 1. The connector from the loop must be twisted-pair with at least ten turns per metre.
- 2. If one loop is used, it should be connected to SL1, as illustrated (SL1=Loop 1).
- 3. If two loops are used, they should be connected to SL1 and SL2, as illustrated (SL2=Loop 2).
- 4. If three loops are used, with two loops having the same function, these two must be connected in series using input NC, which is a potential-free contact. It is important to remember that the loops must be of equal circumference to achieve reliable function.

Indications

There are two yellow LEDs on the detector card, of which the left one indicates loop 1 and the right one indicates loop 2. A constantly lit LED indicates that the loops are oscillating and are most probably functioning, while an unlit LED indicates a fault in the loop. Note that despite a lit LED the loop may be inoperative. The best way to check the loop's function is to look at the readouts from the d-channels on the automatic control unit. There are two yellow LEDs on the automatic control unit that are lit when a vehicle activates one of the loops. These LEDs are located on the left of the card and are marked LOOP1 and LOOP2.





Description of function, d-channels

Two vehicle loops can be connected to the automatic control units via DB402 add-in cards – to activate the inputs set channels d100 and/or d200 to the value 1. When the unit is delivered and following a reset, channels d100 and d200 are set to 0, disabled. The settings below apply to vehicle loop 1, using channel numbers d101 - d190. The functions are the same for vehicle loop 2, except that the channels are numbered d201 - d290. See the channel reference.

Configuring the vehicle loop

Activate the vehicle loop inputs by setting channel d100 to 1.

Channels d101, d102 and d103 are used for loop readouts, and channels d110 to d195 are all used to change settings.

The value in channel d102 must be between 08 and 50, otherwise the vehicle loop will not work correctly.

Basic settings for the vehicle loop:

Detection limit

Set the value in channel d110 to detect vehicles on the vehicle loop.

Set the difference between on and off in channel d111

Vehicle loop reset

There are two channels you can use to reset presence on the vehicle loop - d121 for times between 00 - 99 seconds and d120 for longer times between 005 - 240 minutes.

The timer starts when the vehicle loop is activated, and the loop is reset even if there is still a signal at the loop when the timer ends.

• Compensation for door halves

These channel are used if the door halves activate the loops as they open or close. Open and close the door – the readout in channel d103 indicates the time of loop activation. Enter the time and increase it until the door no longer activates the loop, using channel d131 for the door half operated by motor 1 and d132 for the door half operated by motor 2.

Vehicle loop functions

A number of functions are available when a vehicle loop is activated, using the following channels:

d151, Loop-based closing

Use can use this channel to activate loop-based closing. The value 1 activates loop-based closing and 0 deactivates loop-based closing.

d154, Type of loop closing

This channel works with d151 to control the function of loop-based closing. Either the door closes as soon as the vehicle loop is no longer activated (option 1), or it is left to open fully before closing (option 2).

P160, Control function

This channel is used to enable the opening function with the vehicle loop. The value 0 disables the opening function, and the value 1 activates it.

d161, Type of control signal.

This channel works with d160 and determines the type of the open signal from the vehicle loop – either a pulse (option 0) or a constant signal while the vehicle loop is activated (option 1).

d162, Motor selection

This channel defines which motor will be opened by the vehicle loop. The value 1 opens motor 1, 2 opens motor 2, and 3 opens both motors 1 and 2.

d163, Partial opening

EP104:

If you want partial opening, set this channel to the value 1, the door will then open according to the set time in C412 and C414 when a limit switch is used or a specified number of degrees in L116 and L126 when an encoder is used.

EP105:

If you want partial opening, set this channel to the value 1, the door will then open according to the set time in L216 and L226 when a limit switch is used or a specified number of degrees in L116 and L126 when an encoder is used. During partial opening, closing and opening maneuvers will be paused until the time in C500 has expired.

d170, Enable operation from a programmable input

This channel allows you to disable the opening function from a programmable input. Make sure that the programmable input is active and that all the settings have been disabled. The opening function of the vehicle loop will work for as long as there is a signal present at the programmable input specified in this channel.

d175, Delayed opening

This channel delays the open signal, for example to ensure that the door is not opened by passing cars that are not heading for the door. The channel is set to the number of seconds you want to delay the open signal.

d190, Interlock, Used to send interlock opening to remote door.



Loop safety functions

You can use the following channels to select and configure these safety functions.

d140, Safety when closing

Used to configure the safety setting in the closing movement. The value 0 means the function is disabled – note that the door will close even if there is a vehicle on the loop. Set the value to 1 to reverse the door when something is detected by the vehicle loop, set the value to 2 to send a stop signal with automatic closing, or set the value to 3 to send a stop signal without automatic closing. The automatic closing timer starts when the vehicle exits the loop.

d141, Safety during run-on time

This channel activates safety during the run-on time The safety function is the same as specified in d140. Set the value of this channel to 0 to disable safety during the run-on time, or 1 to activate it.

d142, Safety function when opening

This channel sets the safety function in the opening movement -0 means the function is disabled. The value 1 means reverse, 2 means stop with automatic restart when the loop is clear, and 3 means stop and wait for a new control signal, 4 provides a safety function only in the closed position.





Channel list, d-channels Vehicle loop 1

No. Name Range Factory Setting	Note th	nat the display of the d-channels is determined by the	setting in C702 for l	EP105			
Disabled Disabled					Setting		
Disabled Disabled	d100	Vehicle loop 1	0 – 1	0			
d101 Loop reading x1 000 - 999 d102 Loop reading x1000 00 - 999 d103 Activation by passing vehicle 000 - 999 d110 Detection limit for a vehicle in the loop 05 - 99 15 d111 Difference between on and off in the loop 00 - 50 03 d120 Loop presence reset 000 and 005-240 120 minutes d120 minutes d120 minutes d120 minutes d120 minutes d120 d131 Compensation for activation from door half motor 1 on the loop in the closed position d132 Compensation for activation from door half motor 2 on the loop in the closed position d140 Safety function in closing movement 0 - 4 1 d140 d140 Asafety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing 0 - 1 1 d140 d142 Safety function in closing movement 0 - 4 0 d141 Safety function in closing movement d141 Safety function in open position. Used when the gate passes over the loop in the closing movement. d142 Safety function in open position. Used when the gate passes over the loop in the closing movement. d141 Safety function in open position. Used when the gate passes over the loop in the closing movement. d142 Safety function in opening movement d - 4 0 d d d d d d d d d			Į.				
d102 Loop reading x1000 00 - 99 d103 Activation by passing vehicle 000 - 999 15 d110 Detection limit for a vehicle in the loop 05 - 99 15 d111 Difference between on and off in the loop 00 - 50 03 d120 Loop presence reset 000 and 005-240 120 minutes d121 Fast loop presence reset 00-99 seconds 00 d131 Compensation for activation from door half motor 1 on the loop in the closed position 00 - 50 03 d132 Compensation for activation from door half motor 2 on the loop in the closed position 01 - 50 03 d140 Safety function in closing movement 0 - 4 1 0 Disabled 1 Reverse 2 Stop with automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing 0 - 1 1 d142 Safety function in opening movement 0 - 4 0 d143 Safety function in opening movement 0 - 4 0 d144 Safety function in opening movement 0 - 4 0 d154 Safety only in closed dosing 0 - 1 0 d154 Type of closing 0 - 1 0 d154 Type of closing 1 - 2 2 d154 Type of closing 1 - 2 2 d154 Type of closing 1 - 2 2 d156 Type of closing 1 - 2 2 d157 Type of closing 1 - 2 2 d158 Type of closing 1 - 2 2 d159 Type of closing 1 - 2 2 d150 Type of closing 1		1 Enabled					
d103 Activation by passing vehicle 000 - 999 15	d101	Loop reading x1 000 - 999					
d110 Detection limit for a vehicle in the loop 05 - 99 15	d102	Loop reading x1000	00 - 99]			
d111 Difference between on and off in the loop 00 - 50 03 d120 Loop presence reset 000 and 005-240 120 d121 Fast loop presence reset 00-99 seconds 00 d131 Compensation for activation from door half motor 1 on the loop in the closed position 00 - 50 03 d132 Compensation for activation from door half motor 2 on the loop in the closed position 00 - 50 03 d133 Compensation for activation from door half motor 2 on the loop in the closed position 01 - 4 1 d140 Safety function in closing movement 0 - 4 1 d1 Reverse 2 Stop with automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing 0 - 1 1 movement. 0 Disabled 1 Activated according to d140 d142 Safety function in opening movement 0 - 4 0 d143 Safety function in opening movement 0 - 4 0 d144 Safety with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 d154 Type of closing 1 - 2 2 d154 Type of closing 1 - 2 2	d103						
d120 Loop presence reset	d110	Detection limit for a vehicle in the loop	05 - 99	15			
d121 Fast loop presence reset 00-99 seconds 00 d131 Compensation for activation from door half motor 1 on the loop in the closed position 00 - 50 03 d132 Compensation for activation from door half motor 2 on the loop in the closed position 00 - 50 03 d132 Compensation for activation from door half motor 2 on the loop in the closed position 0 - 4 1 d140 Safety function in closing movement 0 - 4 1 d Disabled 1 Reverse 2 Stop with automatic restart of automatic closing wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing 0 - 1 1 d142 Safety function in opening movement 0 - 4 0 d142 Safety function in opening movement 0 - 4 0 d142 Safety function in opening movement 0 - 4 0 d143 Safety only in closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 d154 Type of closing 1 - 2 2 d154 Type of closing 1 - 2 2	d111	Difference between on and off in the loop	00 - 50	03			
d131 Compensation for activation from door half motor 1 on the loop in the closed position 00 - 50 03	d120	Loop presence reset		120			
loop in the closed position	d121	Fast loop presence reset	00-99 seconds	00			
loop in the closed position	d131	Compensation for activation from door half motor 1 on the 00 - 50 03					
0 Disabled 1 Reverse 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing movement. 0 Disabled 1 Activated according to d140 d142 Safety function in opening movement 0 - 4 0 0 Disabled 1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1	d132	1 *	00 - 50	03			
1 Reverse 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. 1	d140	Safety function in closing movement	0 - 4	1			
2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing movement. 0 Disabled 1 Activated according to d140 d142 Safety function in opening movement 0 - 4 0 Disabled 1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 Disabled 1 Active d154 Type of closing 1 - 2 2		0 Disabled	•				
3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing		1 Reverse					
4 Safety only in open position. Used when the gate passes over the loop in the closing movement. d141 Safety during run-on time or disengagement angle in closing 0 - 1							
d141 Safety during run-on time or disengagement angle in closing 0 - 1							
movement. Disabled 1 Activated according to d140		4 Safety only in open position. Used when the gate passes	over the loop in the clo	sing move	ment.		
1 Activated according to d140 d142 Safety function in opening movement 0 - 4 0 0 Disabled 1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear	1 1 7 8		0 – 1	1			
d142 Safety function in opening movement 0 - 4 0 0 Disabled 1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		0 Disabled					
0 Disabled 1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		1 Activated according to d140					
1 Reverse to fully closed 2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear	d142	Safety function in opening movement	0 - 4	0			
2 Stop with automatic restart of automatic closing 3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		0 Disabled		•			
3 Stop without automatic restart of automatic closing, wait for new control signal 4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		1 Reverse to fully closed					
4 Safety only in closed position. Used when the gate passes over the loop in the opening movement. d151 Loop-based closing 0 - 1 0 0 Disabled 1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		2 Stop with automatic restart of automatic closing					
d151 Loop-based closing 0 - 1 0 0	3 Stop without automatic restart of automatic closing, wait for new control signal						
0 Disabled 1 Active 1 - 2 2 1 Close immediately when loop is clear 2 2		4 Safety only in closed position. Used when the gate passes over the loop in the opening movement.					
1 Active d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear	d151	Loop-based closing	0 - 1	0			
d154 Type of closing 1 - 2 2 1 Close immediately when loop is clear		0 Disabled					
1 Close immediately when loop is clear		1 Active					
1 Close immediately when loop is clear	d154	Type of closing	1 - 2	2			
· · ·							
		·					



No.	Nam	ne	Range	Factory	Setting		
d160	Cont	trol function	0 - 1	0			
	0	Disabled		•			
	1	Open					
d161	Type of control signal when activated		1 - 2	1			
	1	Pulse					
	2	Constant signal when loop is activated					
d162	Moto	or selection	1 - 3	3			
	1	Motor 1					
	2	Motor 2					
	3	Motors 1 and 2					
d163	Parti	al opening	0 - 1	0			
	0	Disabled					
	1	Opening with limit switch according to set time in channel C412/C414 with EP104, L216/L226 with EP105 or number of degrees in L116/L126 if encoder is used. During partial opening, closing and opening maneuvers will be paused until the time in C500 has expired.					
d170		ws the opening function, via LOOP1, using a rammable input.	0 - 6	0			
	0	Disabled, normal opening/closing function. (Programmable input has no function for LOOP1)					
	1	Opening possible only if there is a signal at programmable input 1					
	2	Opening possible only if there is a signal at programmable input 2					
	3	Opening possible only if there is a signal at programmable input 3					
	4	Opening possible only if there is a signal at programmable input 4					
	5	Opening possible only if there is a signal at programmable input 5					
	6	Opening possible only if there is a signal at programmable input 6					
d175		ning via loop after activation during set time, the loop not open the gate until it has been activated for the set	0.0-9.9 seconds	0.0			
d190	Inter	lock opening	0 - 1	0			
		1 8					
	0	Disabled					





Vehicle loop 2

Note th	nat the	e display of the d-channels is determined by the	setting in C702 for I	EP105			
No.	Nam	ne	Range	Factory	Setting		
d200	Vehi	cle loop 2	0 - 1	0			
	0	Disabled					
	1	Enabled					
d201	Loop	reading x1	000 - 999]			
d202	Loop reading x1000 00 - 99						
d203	Activation from passing vehicle 000 - 999						
d210	Dete	ction limit for a vehicle in the loop	05 - 99	15			
d211	Diffe	erence between on and off in the loop	00 - 50	03			
d220	Loop	presence reset	000 and 005-240 minutes	120			
d221	Fast	loop presence reset	00-99 seconds	00			
d231	Compensation for activation from door half motor 1 on the loop in the closed position						
d232	Compensation for activation from door half motor 2 on the loop in the closed position						
d240	Safet	y function in closing movement	0 - 4	1			
	0	Disabled		•			
	 1 Reverse 2 Stop with automatic restart of automatic closing 						
	Stop without automatic restart of automatic closing, wait for new control signal Safety only in open position. Used when the gate passes over the loop in the closing movement.						
					ment.		
d241	d241 Safety during run-on time or disengagement angle in closing 0 - 1 1 movement.		1				
	0	Disabled					
	1	Activated according to d240					
d242 Safety function in opening movement		y function in opening movement	0 - 4	0			
	0	Disabled					
	1	Reverse to fully closed					
	2 Stop with automatic restart of automatic closing						
3 Stop without automatic restart of automatic closing, wait for new co							
	4	Safety only in closed position. Used when the gate passo	es over the loop in the op	pening mo	vement.		
d251	Loop	closing	0 - 1	0			
	0 Disabled						
	1	Enabled					
d254	Type of closing with loop 1 - 2 2						
	1	Close immediately when loop is clear					
	2	Open fully first, then close					





No.	Nan	ne	Range	Factory	Setting			
d260	Con	trol function	0 - 1	0				
	0	Disabled		•	•			
	1	Open						
d261	Type of control signal when activated		1 - 2	1				
	1	Pulse						
	2	2 Signal when loop is activated						
d262	Mot	or selection	1 - 3	3				
	1	Motor 1			•			
	2	Motor 2						
	3	Motors 1 and 2						
d263	Part	ial opening	0 - 1	0				
	0	Disabled		•	•			
	1	Opening with limit switch according to set time in channel C412/C414 with EP104, L216/L226 with EP105 or number of degrees in L116/L126 if encoder is used. During partial opening, closing and opening maneuvers will be paused until the time in C500 has expired.						
d270		ws the opening function, via LOOP2, using a grammable input.	0 - 6	0				
	0	Disabled, normal opening/closing function. (Programmable input has no function for LOOP2)						
	1	Opening possible only if there is a signal at programmable input 1						
	2	Opening possible only if there is a signal at programmable input 2						
	3	Opening possible only if there is a signal at programmable input 3						
	4	Opening possible only if there is a signal at programmable input 4						
	5	Opening possible only if there is a signal at programmable input 5						
	6	6 Opening possible only if there is a signal at programmable input 6						
d275	Opening via loop after activation during set time, the loop will not open the gate until it has been activated for the set time. 0.0-9.9 seconds time.							
d290	Inte	clock opening	0 - 1	0				
	0	Disabled						
	1	Sends a normal open signal to the remote door						





Notes:	

