

Parameter List





Attention!

This document belongs to the assembly instruction of the door controller TST FUZ and is only in connection with this valid.

The important safety advisories as well as the installation and wiring notes, mentioned in the assembly instruction, must be strictly observed.

The functional description employs the following characters to indicate the different danger areas and useful tips.

🛕 Attention!

indicates a risk to persons if the procedure is not carried out as described.

Warning! indicates that the controller is at risk.

points out information which is IMPORTANT to the operation of the gate controller and/or the gate.

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points out information which is useful but not essential for the use of the gate controller

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TST

<u>1</u> D	1 Door Cycle Counter							
Ρ.	[Unit] Range	Function	Description/ Note					
P.000 rrr	[Cycles]	cycle counter	The content of this parameter indicates the number of previously counted cycles.					

2	Maintenance	counter	
P.	. [Unit] Range	Function	Description/ Note
P.00	5 [Cycles] r	Maintenance counter	 The content of this parameter indicates the number of cycles remaining until maintenance is due. The setting -1 means that the maintenance counter has not yet been activated.
P.973 -w	3 01 w	Resetting the maintenance counter	By setting this parameter to 1 the maintenance counter is reset.

3 Auto close times / Forced closing

• Which Auto close time runs depends on the arrived end position and on the OPEN command used. For each OPEN command you can use Parameter P.5x4 to set separately whether and which Auto close time runs

(X = Number of used input).

Ρ.	[Unit] Range	Function	Description/ Note
P.010 www	[Seconds] 0 9999	Auto close time 1	The door is held in the end position Gate OPEN for the set time. The door is then automatically closed.
P.011 www	[Seconds] 0 9999	Auto close time 2	The door is held in the end position Intermediate Stop / Partial open for the set time. The door is then automatically closed.

4 Pre-warning time before door movement / Clearance time

Ρ.	[Unit] Range	Function	Description/ Note		
P.025 -rr	[Seconds] 0 20	Pre-warning time before closing	The closing move is delayed following receipt of a CLOSE command or after expiration of the auto close time (forced close) by the time specified in this parameter.		
P.026 r	0 1	Pre-warning time before closing from between the end positions	 By activating this parameter the pre-warning time runs always before closing, undependend from the input, also between end positions and not only in end position OPEN. The used time is set by P.025. 0: Pre-warning time set by input 1: Pre-warning time always active 		

5 On	coming tra	ffic	
Ρ.	[Unit] Range	Function	Description/ Note
P.892 -zz	0 1	Oncomming traffic control	With this parameter the oncoming traffic function is activated. If activated the direction imformation of an open command (P.5x6) is used to control the traffic lights an the hold open time.
			0: The oncomming traffic function is deactivated. The programmed direction with P.5x6 of relevant commands is not evaluated. Internal the direction is set to "both directions" (P.5x6 = 3).
			1: The oncomming traffic function is active. The direction set by P.5x6 is evaluated. Traffic lights and hold open time are influenced by the used direction.

6 Motor settings

The motor ratings are used to teach the door controller what it needs to know about the motor used.

1 The setting -1 means that this parameter is automatically queried during start-up of the door controller.

Ρ.	[Unit] Range	Function	Description/ Note							
P.100 -ww	[Hz] 30 200	Motor rated frequency	The mo entered	otor rate d here.	d freque	ency inc	licated on	the nan	neplate is	S
P.101 -ww	[A] 0,0 9,9	Motor rated current	The mo entered	otor rate d here.	d currer	nt indica	ated on the	e namep	plate is	
	, ,		L1	L2	L3		L1	L2	L3	
			U1 •	V1	W1		U1	V1) W1	
			W2	U2	V2		W2	U2) V2 (
				Star-w	iring			Delta-v	viring	

Figure 1 Star / Delta wiring

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Note Star / Delta wiring of the motor !

P.102 -ww	[%] 40 100	Power factor cos Phi	The power factor indicated on the nameplate is entered here. The entry is made without the leading "0". 63 thus means cos Phi 0.63.
P.103 -ww	[Volt] 100 500	Motor rated voltage	The motor rated voltage indicated on the nameplate is entered here. Switching the motor windings to 400V operation makes no sense with 230 V supplied controllers, since they can output a maximum of 230V !
			▲ Note Star /Delta switching of the motor ! (see Fig. In parameter P.101: Star / Delta wiring)

Ρ.	[Unit] Range	Function	Description/ Note		
P.110 -zz	0 0	Drive profile	This profile is used to set the motor rated data for a known motor.		
			0: Manual setting of the motor rated data		
			1 The exact settings which this profile involves can be found in Appendix: Drive Profile.		
P.130 -ww	0 1	Motor rotary field	This parameter specifies the rotary field of the motor for OPEN move.		
			0: Right rotating 1: Left rotating		

7 **Boost**

Boost is used to increase the power of drives in the lower speed range.

Either a too little or a too high boost setting can result in improper door movement. If too much boost is already set, this will result in an overcurrent error (F.510/F.410). In this case you must reduce the boost. If the boost is low or 0 and the motor still has insufficient force to move the door, you must increase the boost.

Due to the large number of possible door/gate types, the correct boost setting should be determined experimentally. The diagnostic function for motor current (see Parameter P.910) can be helpful here. By using the current indicator you can easily determine whether the changed setting has achieved the desired results.



 $oldsymbol{0}$ The boost should always be set as low as possible, but high enough to do the job.

Ρ.	[Unit] Range	Function	Description/ Note
P.140	[%]	Boost for OPEN	The boost increases the output voltage and thus the power in the lower opened range until the outeff frequency (P 100)
-WW	0 30		is reached.
			The voltage is increased by the value in percent of the motor rated voltage (P.103) entered in the parameter.
			Boost curve
			P.140/ normal curve
			F_{cutoff} f
			Figure 2 Boost characteristic

P.145	[%]	Boost for CLOSE	see Parameter P.140	
-WW	0 30			

8 Frequency ramp stop function

The frequency ramp stop function makes it possible to move heavy doors.

The function monitors the current during door acceleration. The motor current is allowed to be max. double the rated current (P.101).

If the current is too high, the converter stops the door acceleration and continues to move at an even speed, so that the current drops, since energy for accelerating the door no longer needs to be provided. If the current drops below the limit, the door continues accelerating.

Ρ.	[Unit] Range	Function	Description/ Note
P.141	[Hz]	Start frequency of the	Here the starting point for the frequency ramp stop function is set
W	10 200	for OPEN	Below the set frequency the function is deactivated. The current may then rise above the limit of 2x the motor rated current (P.101). This is possible for a short time, but for longer travel will result in an overcurrent error (F.410 or F.510).



Figure 3 Frequency ramp stop characteristic curve



P.146	[Hz]	Start frequency of the frequency ramp stop	see Parameter P.141	
W	10 200	for CLOSE		

9 I x R compensation

I x R compensation increases the voltage and with it the motor power only in the lower speed range.

Ρ.	[Unit] Range	Function	Description/ Note
P.142 w	[Hz] 0 15	IxR compensation for OPEN	In this parameter you specify the frequency up to which I x R compensation is in effect. The voltage is held to the same value below this frequency. The voltage value is derived from the voltage which is normally output for the frequency set here.
			rixk r _{Cutoff} f

Figure 4 IxR compensation characteristic curve

P.147	[Hz]	IxR compensation for	see Parameter P.142
W	0 15	CLOSE	

10 Voltage reduction

Reducing the motor voltage which is output prevents over-excitation of the motor. This reduces power dissipation and noise.

Ρ.	[Unit] Range	Function	Description/ Note
P.143 w	[%] 35 100	Voltage reduction for OPEN	The indicated value specifies what percent of the output voltage is given out.
			U U _{MAX} % U _{Nom.} P.143/ 148

F_{Cutoff} f

Figure 5 Voltage reduction characteristic curve

Ρ.	[Unit] Range	Function	Description/ Note
P.148	[%]	Voltage reduction for	see Parameter P.143
W	35 100	CLOSE	

11 Se	11 Selecting the positioning system					
Ρ.	[Unit] Range	Function		Description/ Note		
P.202	0 20	Transmission ratio	With this parameter the transmission ratio of the enotite the motor is set.			
-11			As fast value t	ter the drive shaft is as higher has the parameter to be.		
			th connec	is parameter is only visible in case of TST PD is cted and set as limit switch.		
P.205	0000	Selecting the	This profile sets the limit switch system.			
-WW	-ww 0900 positioning system Select from the		from the following settings:			
			0000:	Mechanical limit switches 1. The absolute limit switches are processed as normally closed and the pre-limit switches as normally open.		
			0001:	Mechanical limit switches 2. All limit switches are processed as normally closed.		
			0300:	Absolute encoder DES-A with 9600 Baud (GfA)		
			0700:	Absolute encoder DES-B (Kostal)		
			0800:	Absolute encoder TST PD / TST PE		
			0900:	Timer limit switches		
			1 Th found	e exact settings which this profile involves can be in Appendix: Position Sensor Profile.		
			1			
			In add inputs	ition, the standard functions of the controller are matched to the limit switch type in use.		

Ρ.	[Unit] Range	Function		Description/ Note		
P.210	05	New teaching of the end positions	This pa positior	This parameter is used to start a new teaching of the end positions.		
-00 00			The co mode a down tl	rresponding end positions are moved to in deadman after activating the procedure and saved by holding he Stop key.		
			Select	from the following settings:		
			0:	Cancel, no end positions are taught.		
			1:	Limit switch Lower, limit switch Upper and if appropriate limit switch Intermediate Stop are taught.		
			2:	Limit switch Upper and if appropriate limit switch Intermediate Stop are taught.		
			3:	Limit switch Lower and limit switch Upper are taught.		
			4:	Limit switch Intermediate Stop is taught.		
			5:	All limit switches and the turndirection are taught.		
			1 Tea the set / Intern	aching the Intermediate Stop limit switch depends on ting in Parameter P.244 (see section Partial Opening nediate Stop).		
P.215 -ww	0 1	Requesting correction of the pre-limit switch and limit switch bands	If autor switch used to switch	natic calculation of the pre-limit switch and limit bands (P.216) is activated, this parameter can be start a new teaching of the pre-limit switch and limit bands.		
			0:	Make no correction.		
			1:	Start correction of the pre-limit switch and limit switch bands.		
			Co is only	rrection of the pre-limit switch and limit switch bands possible if P.216 = 2.		

12 End position correction

Ρ.	[Unit] Range	Function	Description/ Note
P.216 w	0 2	Activating auto correction / Selecting the ramp setting	There are two basic ways to set the steepness of a ramp. The ramp time can be set in milliseconds, or the ramp acceleration can be set in Hz per second.
		mode	In addition, the limit switch bands are automatically set when Automatic is activated.
			0: Ramp times have to be set manuelly (as in earlier door controllers from FEIG ELECTRONIC GmbH).
			1: Ramp acceleration has to be set manuelly.
			2: Ramp acceleration has to be set and limit switches are automatically set.
			<u>^</u>
			In case of changing the speed of the door or one of the ramp accelerations the automatically setting of the pre limit switches and limit switch bands will start again.The values set in the corresponding parameters are then overwritten.
			• Automatic teaching of the limit switches and pre limit switches only functions if accelerations for ramps are set. You cannot use ramp times as they were defined in earlier versions of the controllers.
			Depending on the type of door and the used motor the limits can be overrun during automatic calculation of the limits (I.515). To prevent this P.217 has to adjust proper for the used door.
P.217 w	0 600	Tolerance band of automatic end switch	With this parameter an offset is set to the end position find out by the automatic end switch correction.
vv		correction	Because of that the door is not able to overrun the end switch position of the door by the first move.
			The end switch position will move by the value (in percent) adjusted with this parameter.

13 CLOSE

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If automatic setting of the pre-limit switches and limit switch bands is used (P.216 = 2), Parameters P.222 and P.223 are automatically changed.

The parameters are even changed if the speed of the door or the steepness of a ramp is changed, since this results in a new start of automatic limit switch correction. If you want to set these ramps manually, P.216 must be < 2.

13.1 End position door close modify

Ρ.	[Unit] Range	Function	Description/ Note
P.221 www	[Increments] -125 125	Correction value End position door CLOSE	This parameter is used to shift the entire lower end position, i.e., the end position is shifted together with the associated pre-limit switches.
			A change in the parameter value in the positive direction causes the end position to shift up.
			A change in the parameter value in the negative direction causes the end position to shift down.

13.2 Start of Door Closing

Ρ.	[Unit] Range	Function	Description/ Note
P.350	[Hz]	Travel frequency for	Here you specify the maximum close speed in Hz.
-ww	6 200	rapid CLOSE	Start ramp "r5" is used to accelerate to this speed.
			The steepness of the ramp is set with Parameter P.351 or P.352.
			Door CLOSE Pre limit switch Door CLOSE CLOSE
			Way Start ramp r5 P.351 / P.352
			P.350
			Frequency
			Figure 6 Start ramp, CLOSE

Ρ.	[Unit] Range	Function	Description/ Note
P.351	[10 ms]	Duration of start ramp	Time of start ramp "r5" in milliseconds.
W	20 500	"r5"	The door is accelerated within the specified time from 0Hz to the maximum close speed (P.350).
			Smaller values result in greater acceleration of the door. Larger values result in diminished acceleration of the door.
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is set to 0.
P.352 r	[Hz/s] 5 300	Acceleration of start ramp "r5"	Acceleration during start ramp "r5" in Hertz per second.
			Smaller values result in diminished acceleration of the door.
			Larger values result in greater acceleration of the door.
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is greater than 0.

13.3 Slow down after Pre-limit switch during Door CLOSE

Ρ.	[Unit] Range	Function	Description/ Note
P.222 w	[Increments] 0 2100	Pre-limit switch position Door CLOSE	The parameter value specifies the distance to the absolute limit switch Door CLOSE in increments. The pre-limit switch is used to initiate the brake ramp "r6". The steepness of the ramp is set with Parameter P.361 or P.362.
			Door CLOSE Pre limit switch Door CLOSE CLOSE
			Way $\langle P.222 \rangle$
			Brake ramp r6 P.361 / P.362
			Frequency
			Figure 7 Pre-limit switch position Door CLOSE

Ρ.	[Unit] Range	Function	Description/ Note		
P.360 w	[Hz] 6 200	Creep speed frequency for CLOSE	Brake ramp "r6" is used to slow to creep speed frequency, and is initiated after activation of the pre-limit switch Door CLOSE		
			The steepness of the brake ramp "r6" is set with Parameter P361 or P.362.		
			Way Brake ramp r6		
			P.351/P.352		

Figure 8 Creep move for CLOSE

P.361	[10 ms]	Duration of brake	 This parameter specifies the time of brake ramp "r6" in milliseconds. The door is decelerated from maximum close frequency (P350) to creep frequency (P.360) within this time. Smaller values result in greater deceleration of the door. Larger values result in diminished deceleration of the door. This parameter is only visible and settable if Parameter P.216 is set to 0.
w	15 500	ramp "r6"	
P.362	[Hz/s]	Acceleration of brake	This parameter specifies the acceleration of the door during brake ramp "r6" in Hertz per second.
r	5 300	ramp "r6"	
			Smaller values result in diminished deceleration of the door. Larger values result in greater deceleration of the door.
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is greater than 0.

Ρ.	[Unit] Range	Function	Description/ Note
P.382	[Hz/s]	Acceleration of stop	Acceleration during stop ramp "r STOP-Z" in Hertz per
r	5 300	on stop is triggered	The door is decelerated from maximum close speed to 0 Hz after a stop command is given.
			Smaller values result in diminished acceleration of the door.
			Larger values result in greater acceleration of the door.
			1 This ramp also takes effect after the photo eye is interrupted.
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is greater than 0.

13.4 Stopramp after stop is triggered (CLOSE)

14 Open

If automatic setting of the pre-limit switch and limit switch bands is used (P.216 = 2), Parameters P.232 and P.233 are automatically changed.

The parameters are even changed if the speed of the door or the steepness of a ramp is changed, since this results in a new start of automatic limit switch correction. If you want to set these ramps manually, P.216 must be < 2.

14.1 Adjust the end position Door open

Ρ.	[Unit] Range	Function	Description/ Note
P.231 www	[Increments] -60 60	Correction value End position Door OPEN	This parameter is used to shift the entire Door OPEN end position, i.e., the end position is shifted together with the associated pre-limit switches. A change in the parameter value in a positive direction causes the end position to shift up. A change in the parameter value in the negative direction causes the end position to shift down.

Ρ.	[Unit] Range	Function	Description/ Note			
P.310	[Hz]	Travel frequency for	Here you specify the maximum open speed in Hz.			
-ww	6 200	rapid OPEN	Start ramp "r1" is used to accelerate to this speed.			
			The steepness of the ramp is set with Parameter P.311 or P.312.			
			P.310 Start ramp r1 P.311 / P.312 Way			
			OPEN Pre limit switch Limit switch Door OPEN			

14.2 Start Door Opening



P.311	[10 ms]	Duration of start ramp	Time of start ramp "r1" in milliseconds.
W	w 20500 "r1"	The door is accelerated within the specified time from 0Hz to the maximum open speed (P.310).	
			Smaller values result in greater acceleration of the door.
			Larger values result in diminished acceleration of the door.
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is set to 0.
P.312	[Hz/s]	Acceleration of start	Acceleration during start ramp "r1" in Hertz per second.
-		11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
r	5 300	ramp "r1"	
r	5 300	ramp "r1"	Smaller values result in diminished acceleration of the door.
1	5 300	ramp "r1"	Smaller values result in diminished acceleration of the door. Larger values result in greater acceleration of the door.

Ρ.	[Unit] Range	Function	Description/ Note			
P.232 w	[Increments] 0 2100	Pre-limit switch position Door OPEN	The parameter value specifies the distance to the Door OPEN absolute limit switch in increments. The pre-limit switch is used to initiate the brake ramp "r The steepness of the ramp is set with Parameter P.321			
			Frequency	Brake ramp r2 P.321 / P.322		
			OPEN	Pre limit switch Limit switch Door OPEN Door OPEN		

14.3 Slow down after pre-limit switch is triggered during Door OPEN

Figure 10 Pre-limit switch position Door OPEN



Ρ.	[Unit] Range	Function	Description/ Note	
P.321 w	[10 ms] 15 500	Duration of brake ramp "r2"	This parameter specifies the acceleration of the door durin brake ramp "r2" in Hertz per second.	
			Smaller values result in diminished deceleration of the door.	
			Larger values result in greater deceleration of the door.	
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is greater than 0.	
P.322 r	[Hz/s] 5 300	Acceleration of brake ramp "r2"	This parameter specifies the acceleration of the door during brake ramp "r2" in Hertz per second.	
			Smaller values result in diminished deceleration of the door. Larger values result in greater deceleration of the door.	
			1 This parameter is only visible and settable if Parameter P.216 is greater than 0.	

14.4 Stop ramp after stop is triggered (OPEN)

Ρ.	[Unit] Range	Function	Description/ Note			
P.340 w	[10 ms] 15 250	Duration of stop ramp "r STOP-A" after stop is triggered	Time of stop ramp "r STOP-A" in milliseconds. The door is decelerated in the specified time from maximum open speed to 0 Hz after triggering of a stop command.			
			Smaller values result in greater acceleration of the door. Larger values result in diminished acceleration of the door. Frequency			
			Stop ramp r _{STOP-A} P.340 / P.342			
			OPEN Pre limit switch Limit switch Door OPEN Way			
			Figure 12 Triggering of Stop for OPEN move			
			1 This parameter is only visible and settable if Parameter <i>P.216</i> is set to 0.			

Ρ.	[Unit] Range	Function	Description/ Note
P.342 r	[Hz/s] 5 300	Acceleration of stop ramp " r STOP-A" after stop is triggered	Acceleration during stop ramp "r STOP-A" in Hertz per second. The door is decelerated from maximum open speed to 0 Hz after a stop command is given. Smaller values result in diminished acceleration of the door. Larger values result in greater acceleration of the door. 1 This parameter is only visible and settable if Parameter P.216 is greater than 0.

15 Incremental encoder / Synchronisation

15.1 Synchronization type

Ρ.	[Unit] Range	Function	Description/ Note		
P.25F -ww	0 10	Synchronization type profile	This pr automa	ofile is used to set the reference switches and atic synchronization mode.	
			0: 1:	Deactivated Synchronization to reference switch in Door CLOSE Endposition.	
			2:	Synchronization to to safety edge.	
			3:	endposition.	
			4:	Synchronization to mechanical stop in Door OPEN endposition.	
			5:	Synchronization to safety edge and then to mechanical stop in Door OPEN endposition.	
			6:	Synchronization to safety edge and then to reference switch in Door OPEN endposition.	
			7:	Synchronization to reference switch in Door CLOSE endposition and then to mechanical stop in Door OPEN Endposition.	
			8:	Synchronization to mechanical stop in Door CLOSE Endposition and then to mechanical stop in Door OPEN Endposition	
			9:	Manual synchronization to Door CLOSE	
			10:	Endposition and to Door OPEN Endposition. Timer-limit switch-mode. Synchronisation is done automatically to end switch CLOSE and OPEN.	
			1 The found i	e exact settings which this profile involves can be in Appendix: Synchronization Type.	

D	[] Init]	Eurotion	Description/Note
г.	Range	Function	Description/ Note
P.92A		Softwareversion FSx	Software version of the mobile unit of the wireless safety
rrr		mobile unit	device.
P.92B		Software version FSx	Software version of the stationary unit of the wireless safety
rrr		stationary unit	device.
P.9F0 -rr	[%] 0 100	Capacity of battery	This parameter shows the actuall capacity of the battery.
P.9F1	[Volt]	Battery voltage of	Shows the battery voltage of the mobile unit if the radio
-rr		radio safety system	safety system.
P.9F2	[%]	Wireless status	Shows the quality of the radio link to the mobile unit of the
-rr			radio safety system.
P.F00	0 1	Activation of the	Activation of the wireless
		Whereas	0: Deactivated
			1: Activated
P.F01	[ms]	Timeout for the	Defines the time in which the radio safety system is set as
-ZZ	6 250	wireless	tripped in case of an radio interruption.
P.F05	1 10	Channelgroup	Sets the channel group ehich the radio safety system is
	0000000	Addross of the mehile	Using.
-WW	0FFFFFFF	unit	system should communicate
			After entering the address it is necessary to check
			whether the controller is connected to and works with the selected mobile unit.
			1 It is also possible to "learn" the address automatically.
			To do this, the parameter must be set to - then the mobile
			unit must be reset by removing the battery. The address is
			then entered into the parameter and can be saved
P.F09 -ww	[Volt] 1.23.6	Battery nominal voltage	Here the nominal voltage of the battery is put in.
P.FF2	0 2	Mode output 2	Output mode of output No. 2
-22			 O: Automatic. If a digital Input is linked to this output, the output signal is digital. If a analogoue input or mixed inputs are linked to this output the output signal is analogoue. 1: Analogous output signal 2: Digital output signal

16.1 FSx input profiles

1 The settings that may be necessary for these profiles are available from the atta	chments
---	---------

Ρ.	[Unit] Range	Function	Description/ Note
A.F00	0000 21BB	FSx Wireless safety system profile	This Profile activates the radio safety system TST FSx and sets configurations for the typical door applications.
			 0000: No profile set 10BB: Sectional door, WiCab PE_FSBS and FSBM 20AA: Rolling door, WiCab PD_FSAS and FSAM 20BA: Rolling door, WiCab PE_FSBS and FSAM 20BB: Rolling door, WiCab PE_FSBS and FSBM 21AA: Rolling door with breakaway sensor, WiCab PD_FSAS and FSAM 21BA: Rolling door with breakaway sensor, WiCab PE_FSBS and FSAM 21BB: Rolling door with breakaway sensor, WiCab PE_FSBS and FSBM
P.F1F -ww	0000 F302	Function input 1	Selection of the Input configuration for the input 1of the FSx unit.
			 0000: Deactivated F101: Safety edge 8K2 F102: Dynamical optical safety edge F103: Like F101 but takes effect to output 2 of the stationary unit F104: 8K2 safety edge on output 3, for FSA digital put thru of an 8K2 input. F201: Flap door switch digital F202: Flap door switch 8k2 F203: Slack rope switch digital F206: Thermo pill F207: Crank switch F301: Crash impulse switch with handshake F302: crash static
P.F2F -ww	0000 F302	Function input 2	 Selection of the Input configuration for the input 2 of the FSx unit. 0000: Deactivated F101: Safety edge 8K2 F102: Dynamical optical safety edge F103: Like F101 but takes effect to output 2 of the stationary unit F104: 8K2 safety edge on output 3, for FSA digital put thru of an 8K2 input. F201: Flap door switch digital F202: Flap door switch 8k2 F203: Slack rope switch digital F206: Thermo pill F207: Crank switch F301: Crash impulse switch with handshake F302: crash static

Ρ.	[Unit] Range	Function	Description/ Note
P.F3F -ww	0000 F302	Function input 3	Selection of the Input configuration for the input 3 of the FSx unit.
			 0000: Deactivated F101: Safety edge 8K2 F102: Dynamical optical safety edge F103: Like F101 but takes effect to output 2 of the stationary unit F104: 8K2 safety edge on output 3, for FSA digital put thru of an 8K2 input. F201: Flap door switch digital F202: Flap door switch 8k2 F203: Slack rope switch digital F206: Thermo pill F207: Crank switch F301: Crash impulse switch with handshake F302: crash static
P.F4F -ww	0000 F302	Function input 4	 Selection of the Input configuration for the input 4 of the FSx unit. 0000: Deactivated F101: Safety edge 8K2 F102: Dynamical optical safety edge F103: Like F101 but takes effect to output 2 of the stationary unit F104: 8K2 safety edge on output 3, for FSA digital put thru of an 8K2 input. F201: Flap door switch digital F202: Flap door switch 8k2 F203: Slack rope switch digital F206: Thermo pill F207: Crank switch F301: Crash impulse switch with handshake F302: crash static
			FSBM mobile unit.

16.2 FSx input 1			
Ρ.	[Unit] Range	Function	Description/ Note
P.F10	0 4	Mode input 1	Defines the operation mode of input 1 of the mobile unit.
-ZZ			
			0: Deactivated
			1: Analogue evaluation with 8K2 Ohm
			2: Analogue evaluation with 1K2 Ohm
			3: Dynamic optical system
			4: Digital evaluation

Ρ.	[Unit] Range	Function	Description/ Note
P.F11 -zz	0 2	Safety	This parameter specifies how the input will work after the radio signal is missing.
			 Input active at missing radio signal and always in sleepmode.
			1: Input active at missing radio signal
			 The last status of the input is given out (missing radio signal and sleepmode doesn`t change the output)
P.F12 -zz	0 1	Contact type	Specifies the contact type of the switch which is connected to the input.
			0: Normally open 1: Normally closed
P.F13 -zz	0 1	Debouncing time	This Parameter determine the debouncing time for the Input
			0: Short debouncing time (3 ms)1: Long debouncing time (30 ms)
P.F16 -zz	1 3	Output	With this parameter the allocation from the input 1 of the mobile unit to the stationary unit is done.
			 Output 1 Output 2 Output 3
P.F17 -zz	0 2	Direction 1	Drive direction at which the safety, connected on input 1, must be activated (at the moment only for optical systems evaluated).
			 Both directions Door opening Door closing
P.F18 -zz	0 1	Handshake	With this Parameter a Handshake between an input of the mobile unit and an controller input can be activated. If the input of the mobile unit is tripped, the tripping will store and shown as long as the controller has confimed it. Because of this e.g. a crash tripping during switched off controller will not get lost.
			 Handshake deactivated Handshake between input of mobile unit and controller activated.
			The software version of the mobile unit as well as the the software version of the stationary unit must support this function (from version Vxx-04.04 possible).

Ρ.	[Unit] Range	Function	Description/ Note
P.F20 -zz	0 4	Mode input 2	Defines the operation mode of input 2 of the mobile unit.
			0: Deactivated
			1: Analogue evaluation with 8K2 Ohm
			2: Analogue evaluation with 1K2 Ohm
			3: Dynamic optical system 4: Digital evaluation
P.F21 -zz	0 2	Safety	This parameter specifies how the input will work after the radio signal is missing.
			 Input active at missing radio signal and always in sleepmode.
			1: Input active at missing radio signal
			2: The last status of the input is given out (missing
			radio signal and sleepmode doesn't change the
			output)
P.F22	0 1	Contact type	Specifies the contact type of the switch which is connected
-ZZ			to the input.
			0. Normally open 1: Normally closed
P.F23 -zz	0 1	Debouncing Time	This Parameter determine the debouncing time for the Input
			0: Short dehouncing time (3 ms)
			1: Long debouncing time (30 ms)
P.F26 -zz	1 3	Output	With this parameter the allocation from the input 2 of the mobile unit to the stationary unit is done.
			1: Output 1
			2: Output 2
			3: Output 3
D E 27	0.0	Direction 2	Drive direction at which the activity is activisted
г.г <i>21</i> -ZZ	02	Direction 2	(Only for optical systems)
			(,
			0: Both directions
			1: Door opening
			2: Door closing

16.3 FSx input 2

Ρ.	[Unit] Range	Function	Description/ Note
P.F28	0 1	Handshake	With this Parameter a Handshake between an input of the mobile unit and an controller input can be activated.
LL			If the input of the mobile unit is tripped, the tripping will store and shown as long as the controller has confimed it.
			Because of this e.g. a crash tripping during switched off controller will not get lost.
			0: Handshake deactivated
			1: Handshake between input of mobile unit and controller activated.
			1 The software version of the mobile unit as well as the the software version of the stationary unit must support this function (from version Vxx-04.04 possible).

16.4 FSx input 3

Ρ.	[Unit] Range	Function	Description/ Note
P.F30 -zz	0 4	Mode input 3	Defines the operation mode of input 3 of the mobile unit.
			0: Deactivated
			1: Analogue evaluation with 8K2 Ohm
			2: Analogue evaluation with 1K2 Ohm
			3: Dynamic optical system
			4: Digital evaluation
P.F31 -zz	0 2	Safety	This parameter specifies how the input will work after the radio signal is missing.
			 Input active at missing radio signal and always in sleepmode.
			1: Input active at missing radio signal
			 The last status of the input is given out (missing radio signal and sleepmode doesn`t change the output)
P.F32 -zz	0 1	Contact type	Specifies the contact type of the switch which is connected to the input.
			0: Normally open
			1: Normally closed
P.F33 -zz	0 1	Debouncing time	This Parameter determine the debouncing time for the Input
			0: Short debouncing time (3 ms)
			1: Long debouncing time (30 ms)
			5 5 (<i>'</i> ,

Ρ.	[Unit] Range	Function	Description/ Note
P.F36 -zz	1 3	Output	With this parameter the allocation from the input 3 of the mobile unit to the stationary unit is done.
			1: Output 1 2: Output 2 3: Output 3
P.F37 -zz	0 2	Direction 3	Drive direction at which the safety is activated (Only for optical systems)
			 Both directions Door opening Door closing
P.F38 -zz	0 1	Handshake	With this Parameter a Handshake between an input of the mobile unit and an controller input can be activated. If the input of the mobile unit is tripped, the tripping will store and shown as long as the controller has confimed it. Because of this e.g. a crash tripping during switched off controller will not get lost.
			 Handshake deactivated Handshake between input of mobile unit and controller activated.
			1 The software version of the mobile unit as well as the the software version of the stationary unit must support this function (from version Vxx-04.04 possible).

16.5 FSx input 4

1 The input 4 of the mobile unit is only possible with TST FSBM. The following parameters are only visible by using this mobile unit.

Ρ.	[Unit] Range	Function	Description/ Note
P.F40 -zz	0 4	Mode input 4	Defines the operation mode of input 4 of the mobile unit.
			 Deactivated Analogue evaluation with 8K2 Ohm Analogue evaluation with 1K2 Ohm Dynamic optical system Digital evaluation
P.F41 -zz	0 2	Safety	This parameter specifies how the input will work after the radio signal is missing.
			 Input active at missing radio signal and always in sleepmode. Input active at missing radio signal The last status of the input is given out (missing radio signal and sleepmode doesn`t change the output)

Ρ.	[Unit] Range	Function	Description/ Note
P.F42 -zz	0 1	Contact type	Specifies the contact type of the switch which is connected to the input.
			0: Normally open 1: Normally closed
P.F43 -zz	0 1	Debouncing time	This Parameter determine the debouncing time for the Input
			0: Short debouncing time (3 ms)1: Long debouncing time (30 ms)
P.F46 -zz	1 3	Output	With this parameter the allocation from the input 4 of the mobile unit to the stationary unit is done.
			 Output 1 Output 2 Output 3
P.F47 -zz	0 2	Direction 4	Drive direction at which the safety is activated (Only for optical systems)
			 Both directions Door opening Door closing
P.F48 -zz	0 1	Handshake	With this Parameter a Handshake between an input of the mobile unit and an controller input can be activated. If the input of the mobile unit is tripped, the tripping will store and shown as long as the controller has confimed it. Because of this e.g. a crash tripping during switched off controller will not get lost.
			 Handshake deactivated Handshake between input of mobile unit and controller activated.
			1 The software version of the mobile unit as well as the the software version of the stationary unit must support this function (from version Vxx-04.04 possible).

17 Safety Edges

The following parameters can be set both for integrated safety edge processing as well as for external safety edge processing (optional for different controllers).

17.1 Integrated safety edge processing

The controllers have a safety edge processor already on the motherboard. No additional plug-in cards are necessary.

Ρ.	[Unit] Range	Function	Description/ Note
P.460 r	06	profile internal safety edge	 With this profile the parameter's for the function of the internal safety edge are set. 0: Deactivated 1: Electrical safety edge, redundantly processed, functioning as normally open 2: Electrical safety edge, redundantly processed, functioning as normally closed 3: Electrical safety egde with testing in Door close ond position functioning as normally open
			 end position, functioning as normally open 4: Electrical safety egde with testing in Door close end position, functioning as normally closed 5: Dynamic optical system 6: Automatically detection of the connected safety edge. Electrical N.O. edges and dynamic optical systems are recognised automatically. 1 The exact settings which this profile involves can be found in the Appendix :Safety egde profile
P.466 -zz	0 2	External testing of safety edge	With this parameter a testing of the safety edge can resquested. Testing is possible in door CLOSE or OPEN position.
			 No test Test in the endpostion Door Open and after start up of the controller Test in the endpostion Door Close and after start up of the controller

18 Input profiles

Ρ.	[Unit] Range	Function	Description/ Note
P.501 w	0000 1804	Function of Input 1	This profile can be used to specify the function of the input. All parameters needed for the function of the input are changed in one step.
			1 The exact settings which this profile involves can be found in Chapter "Overview of Input Profiles"

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Ρ.	[Unit] Range	Function		Description/ Note	
P.502	0000	Function of Input 2	see P.501		
W	1804				
P.503	0000	Function of Input 3	see P.501		
W	1804				
P.504	0000	Function of Input 4	see P.501		
W	1804				
P.505	0000	Function of Input 5	see P.501		
W	1804				
P.506	0000	Function of Input 6	see P.501		
W	1804				
P.507	0000	Function of Input 7	see P.501		
W	1804				
P.508	0000	Function of Input 8	see P.501		
W	1804				
P.509	0000	Function of Input 9	see P.501		
W	1804				

19 Overview of Input Profiles

	Input functions	Input deactivated
	Mode	-
	Contact type	-
	End position to move to	-
0000	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	-

	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0101	Hold-open time / Priority	With auto close time (P.010 or P.011)
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
0102	Hold-open time / Priority	With auto close time (P.010 or P.011)
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	OPEN command
0400	Mode	OPEN airlock move, not lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
	Hold-open time / Priority	With auto close time (P.010 or P.011)
0103	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
0404	Hold-open time / Priority	With auto close time (P.010 or P.011)
0104	Clear time	With clear time / pre-warning time (P.025)
	Direction	From outside to inside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
	Mode	OPEN 2, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0405	Hold-open time / Priority	With auto close time (P.010 or P.011)
0105	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
	Mode	OPEN 2, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0106	Hold-open time / Priority	With auto close time (P.010 or P.011)
0100	Clear time	With clear time / pre-warning time (P.025)
	Direction	From inside to outside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
0107	Mode	OPEN 4, not lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
	Hold-open time / Priority	vvitn auto close time (P.010 or P.011)
	Clear time	vvith clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	lest	I NO TEST

	Input functions	OPEN command
	Mode	OPEN 2, lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
	Hold-open time / Priority	With auto close time (P 010 or P 011)
0108	Clear time	With clear time / pre-warning time (P 025)
	Direction	Both directions are cleared
	Switch on dolow of input	
	Switch on delay of input	
	Switch off delay of input	
	lest	NO TEST
	here a fame of a second	
	Mode	OPEN 3, not lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
0109	Hold-open time / Priority	With auto close time (P.010 or P.011)
0103	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0440	Hold-open time / Priority	With auto close time (P.010 or P.011)
0110	Clear time	With clear time / pre-warning time (P.025)
	Direction	From outside to inside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
		•
	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.C., Normally closed
	End position to move to	End position Door OPEN
0444	Hold-open time / Priority	Without auto close time
0111	Clear time	No clear time / pre-warning time
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	OPEN command
0112	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
L		

	Input functions	OPEN command
0113	Mode	Open command works, if the detector 1 was busy
		(P660=25)
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
	Hold-open time / Priority	With auto close time (P.010 or P.011)
• • • •	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0.0 [Seconds]
	Switch off delay of input	0.0 [Seconds]
	Test	No test
	Input functions	OPEN command
	Mode	OPEN airlock move not lockable
	Contact type	N O Normally open
	End position to move to	End position intermediate stop / partial opening
	Hold-open time / Priority	With auto close time (P 010 or P 011)
0114	Clear time	With clear time / pre-warning time (P 025)
	Direction	From inside to outside
	Switch on delay of input	
	Switch off delay of input	
	Test	No test
	1030	NO lest
	Input functions	
	Mode	OPEN 1 lockable
	Contact type	
	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
0116	Clear time	With clear time / pre-warping time (P.025)
	Direction	From outside to inside
	Switch on delay of input	
	Switch off delay of input	
	Tost	No test
	1631	NO lest
	Input functions	
	Mode	
	Contact type	
	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
0117	Clear time	With clear time / pre-warping time (P.025)
	Direction	From inside to outside
	Switch on delay of input	
	Switch off delay of input	
	Tost	No test
	1631	NO lest
	Input functions	
0120	Mode	OPEN 2 lockable
	Contact type	N O Normally open
	End position to move to	End position Door OPEN
	Hold-open time / Priority	With auto close time (P 010 or P 011)
	Clear time	No clear time / pre-warning time
	Direction	From inside to outside
	Switch on delay of input	0 0 [Seconds]
	Switch off delay of input	
	Toet	
	1031	

Input functions

	Input functions	OPEN command
	Mode	OPEN 1, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0121	Hold-open time / Priority	With auto close time (P.010 or P.011)
	Clear time	No clear time / pre-warning time
	Direction	From outside to inside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
_

	Test	No test
	Switch off delay of input	0,0 [Seconds]
	Switch on delay of input	0,0 [Seconds]
	Direction	From inside to outside
0124	Clear time	With clear time / pre-warning time (P.025)
	Hold-open time / Priority	With auto close time (P.010 or P.011)
	End position to move to	End position intermediate stop / partial opening
	Contact type	N.O., Normally open
	Mode	OPEN 2, lockable
	Input functions	OPEN command

	Input functions	OPEN command
	Mode	OPEN 2, lockable
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0125	Hold-open time / Priority	With auto close time (P.010 or P.011)
0125	Clear time	With clear time / pre-warning time (P.025)
	Direction	From inside to outside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	OPEN command
	Mode	OPEN 2, lockable
	Contact type	N.O., Normally open
	End position to move to	End position intermediate stop / partial opening
0120	Hold-open time / Priority	With auto close time (P.010 or P.011)
0129	Clear time	With clear time / pre-warning time (P.025)
	Direction	From outside to inside
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	OPEN command
	Mode	Open command which starts the emergency opening test
		in case of P.494 = 2.
	Contact type	N.C., Normally closed
	End position to move to	End position Door OPEN
0152	Hold-open time / Priority	With auto close time (P.010 or P.011)
0152	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	Test in the endpostion Door Open and after start up of the
		controller

	Input functions	Single channel / pull switch
	Mode	OPEN -> End position -> CLOSE -> OPEN
	Contact type	N.O., Normally open
0201	End position to move to	When activating in Door CLOSE end position, the door travels up to the intermediate stop / partial opening end position, when activating in intermediate stop position the door travels up to the Door OPEN end position.
	Hold-open time / Priority	With auto close time (P.010 or P.011)
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Single channel / pull switch
	Mode	OPEN -> End position -> CLOSE -> OPEN
	Contact type	N.O., Normally open
	End position to move to	like 2., but the door travels directly to the Door OPEN end
		position if activation takes place 2x in quick succession in
0202		the Lower end position.
0202	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Single channel / pull switch
	Mode	OPEN -> End position -> CLOSE -> OPEN
	Contact type	N.O., Normally open
	End position to move to	like 2., but the door travels directly to the Door OPEN end
		position if activation takes place 2x in quick succession in
0000		the Lower end position.
0203	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Single channel / pull switch
	Mode	OPEN -> End position -> CLOSE -> OPEN
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0204	Hold-open time / Priority	Without auto close time
0204	Clear time	With clear time / pre-warning time (P.025)
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Permanent open command
	Mode	Permanent open command
	Contact type	N.O., Normally open
0301	End position to move to	When activating in Door CLOSE end position, the door travels up to the intermediate stop / partial opening end position, when activating in intermediate stop position the door travels up to the Door OPEN end position.
	Hold-open time / Priority	-
	Clear time	-
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Permanent open command
	Mode	Summer funktion for Airlock
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0202	Hold-open time / Priority	-
0302	Clear time	-
	Direction	Both directions are cleared
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Permanent open command
	Mode	Permanent open command
	Contact type	N.O., Normally open
	End position to move to	End position Door OPEN
0204	Hold-open time / Priority	-
0304	Clear time	-
	Direction	No direction specified
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	Stop function
	Contact type	N.C., Normally closed
	End position to move to	-
0401	Hold-open time / Priority	-
0401	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	Stop function
	Contact type	N.O., Normally open
	End position to move to	-
0402	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	Stop function and also acknowledgement function, i.e. this input is used for an acknowledgement. An acknowledgement must be performed e.g. under the conditions defined in P.408
	Contact type	N.C., Normally closed
0403	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	Stop function and also acknowledgement function, i.e. this input is used for an acknowledgement. An acknowledgement must be performed e.g. under the
	Contact turns	Conditions defined in P.408
	Contact type	N.O., Normally open
0404	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	A deadman mode open and close move is possible.
		To quitt with foilkeypad stop (a long time) is every time
		possible when the input is not activ.
		Till the failure is quitt F.060 appears.
	Contact type	N.O., Normally open
0407	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Stop command
	Mode	A deadman mode open and close move is possible.
		To quitt with foilkeypad stop (a long time) is every time
		possible when the input is not activ.
		Till the failure is quitt F.060 appears.
	Contact type	N.C., Normally closed
0411	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
0501		to.
0501	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
0502		to.
0502	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
0504		to.
	Hold-open time / Priority	With minimum auto close time (P.015)
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.O., Normally open
	End position to move to	Same end position as the previously activated input moved
0505		to.
0505	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
0506		to.
	Hold-open time / Priority	With minimum auto close time (P.015)
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.O., Normally open
	End position to move to	Same end position as the previously activated input moved
0507		to.
0507	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety B
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
		to.
0520	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	Test in the endpostion Door Open and after start up of the
		controller

	Input functions	Jog mode / Automatic switch
	Mode	Manual permits opening and closing
	Contact type	N.O., Normally open
	End position to move to	-
0601	Hold-open time / Priority	-
0001	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Jog mode / Automatic switch
	Mode	Manual permits closing only
	Contact type	N.O., Normally open
	End position to move to	-
0602	Hold-open time / Priority	-
0002	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Close command
	Mode	Closing in automatic mode only
	Contact type	N.O., Normally open
	End position to move to	-
0701	Hold-open time / Priority	Without auto close time
0/01	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Door locking in end position
	Mode	Door locking in end position Door-CLOSE, no deadman
		move permitted
	Contact type	N.O., Normally open
	End position to move to	Locking in end position Door-OPEN
0801	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Door locking in end position
	Mode	Door locking in end position Door-CLOSE, Deadman move permitted
	Contact type	N.O., Normally open
	End position to move to	Locking in end position Door-OPEN
0802	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Door locking in end position
	Mode	Door locking in position which is set by parameter P.5x3. Also a drive command is given so that the door moves automaticaly in creep speed (P.320 / P.360) to the adjusted position.
	Contact type	N.O., Normally open
0803	End position to move to	Locking in end position Door-OPEN
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Door locking in end position
	Mode	Door locking in position which is set by parameter P.5x3. Also a drive command is given so that the door moves automaticaly in creep speed (P.320 / P.360) to the adjusted position.
	Contact type	N.O., Normally open
0804	End position to move to	Locking in end position Door-CLOSE
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Cross traffic input
	Mode	Detector channel1 and OPEN 1 commands
	Contact type	N.O., Normally open
	End position to move to	-
0001	Hold-open time / Priority	-
0901	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Cross traffic input
	Mode	is locked by partner detector. Additionally open commands
		of the partner are locked.
	Contact type	N.O., Normally open
	End position to move to	-
0902	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Cross traffic input
	Mode	Detector Channels 1 and 2 as well as OPEN 1 and 2
		commands
	Contact type	N.O., Normally open
	End position to move to	-
0903	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Deactivation input
	Mode	Hold-open time / Forced closing
	Contact type	N.O., Normally open
	End position to move to	-
1001	Hold-open time / Priority	-
1001	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Deactivation input
	Mode	Airlock function
	Contact type	N.O., Normally open
	End position to move to	-
1002	Hold-open time / Priority	-
1002	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Deactivation input
	Mode	Intermediate stop / partial opening
	Contact type	N.O., Normally open
	End position to move to	-
1002	Hold-open time / Priority	-
1003	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Deactivation input
	Mode	Detector commands from the outside (P.666 or P.676)
		DET 1
	Contact type	N.O., Normally open
	End position to move to	-
1004	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Deactivation input
	Mode	Disabling of detector OPEN and CLOSE commands, the
		safety function of the detectors remains active.
	Contact type	N.O., Normally open
	End position to move to	-
1005	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Limit switch input
	Mode	Pre-limit switch Photoeye
	Contact type	N.O., Normally open
	End position to move to	-
1101	Hold-open time / Priority	-
1101	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Limit switch input
	Mode	Intermediate stop / partial opening limit switch
	Contact type	N.O., Normally open
	End position to move to	-
1102	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

Limit switch input

	Mode	Pre-limit switch Intermediate stop / partial opening
	Contact type	N.O., Normally open
1103	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	Limit switch input
	Mode	Pre-limit switch safety edge
	Contact type	N.O., Normally open
	End position to move to	-
4404	Hold-open time / Priority	-
1104	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	Limit switch input
	Mode	Pre-limit switch safety edge
	Contact type	N.C., Normally closed
	End position to move to	-
	Hold-open time / Priority	-
1105	Clear time	-
	Direction	-
	Switch on delay of input	0.0 [Seconds]
	Switch off delay of input	0.0 [Seconds]
	Test	No test
	Input functions	Limit switch input
	Mode	Pre-limit switch Door OPEN
	Contact type	N.O., Normally open
	End position to move to	-
4400	Hold-open time / Priority	-
1106	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	Limit switch input
1107	Mode	Pre-limit switch Door OPEN
	Contact type	N.C., Normally closed
	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

Input functions

	Input functions	Limit switch input
	Mode	Pre-limit switch Door CLOSE
	Contact type	N.O., Normally open
	End position to move to	-
	Hold-open time / Priority	-
1108	Clear time	
	Direction	
	Switch on dolow of input	
	Switch off delay of input	
	Switch on delay of input	
	Test	NO test
	Invest from etterne	I finale constants formule
	Input functions	
	Mode	Pre-limit switch Door CLOSE
	Contact type	N.C., Normally closed
	End position to move to	-
1109	Hold-open time / Priority	-
1105	Clear time	-
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
	Input functions	Limit switch input
	Mode	Limit switch Door Open
	Contact type	N.C., Normally closed
	End position to move to	-
4440	Hold-open time / Priority	-
1110	Clear time	-
	Direction	-
	Switch on delay of input	0.0 [Seconds]
	Switch off delay of input	0.0 [Seconds]
	Test	No test
Input functions Limit switch input		
	Mode	Limit switch Door Close
	Contact type	N.C., Normally closed
	End position to move to	-
	Hold-open time / Priority	-
1111	Clear time	-
	Direction	-
	Switch on delay of input	0.0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test
		1
	Input functions	Limit switch input
1114	Mode	crash switch
	Contact type	N.O., Normally open
	End position to move to	-
	Hold-open time / Priority	-
	Clear time	-
	Direction	-
	Switch on delay of input	0.0 [Seconds]
	Switch off delay of input	0.0 [Seconds]
	Test	No test

TST

	Input functions	Safety A
	Mode	Safety during closing:
		Stopping during automatic closing without reversing, stop
		during jog closing, no reaction during opening
	Contact type	N.C., Normally closed
1401	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety A
	Mode	Safety during closing:
		Reversing during automatic closing, stop during jog
		closing, no reaction during opening
	Contact type	N.C., Normally closed
	End position to move to	Same end position as the previously activated input moved
1402		to.
1402	Hold-open time / Priority	Auto close time as used before with the last open
		command.
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety A
	Mode	Safety during closing:
		Stopping during automatic or jog closing, after releasing
		the input the door moves on to door close position, no
		reaction during opening
	Contact type	N.C., Normally closed
1403	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety A
	Mode	Safety during closing and opening:
		Stopping during automatic or jog opening or closing
	Contact type	N.C., Normally closed
	End position to move to	End position Door OPEN
1404	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety A
	Mode	Safety during closing and opening:
		Stopping during automatic or jog opening or closing, after releasing the input the door moves on to door close
		position
	Contact type	N.C., Normally closed
1405	End position to move to	End position Door OPEN
	Hold-open time / Priority	Without auto close time
	Clear time	With clear time / pre-warning time (P.025)
	Direction	-
	Switch on delay of input	0,0 [Seconds]
	Switch off delay of input	0,0 [Seconds]
	Test	No test

	Input functions	Safety A		
	Mode	Safety during opening:		
		Reversing during automatic opening, stopping during jog		
		opening, no reaction during closing		
	Contact type	N.C., Normally closed		
1406 -	End position to move to	Same end position as the previously activated input moved		
		to.		
	Hold-open time / Priority	Auto close time as used before with the last open		
		command.		
	Clear time	With clear time / pre-warning time (P.025)		
	Direction	-		
	Switch on delay of input	0,0 [Seconds]		
	Switch off delay of input	0,0 [Seconds]		
	Test	No test		

	Input functions	Safety A		
	Mode	Safety during opening:		
		Stopping during automatic or jog opening		
	Contact type	N.C., Normally closed		
	End position to move to	Same end position as the previously activated input moved		
		to.		
1407	Hold-open time / Priority	Auto close time as used before with the last open		
command		command.		
	Clear time	With clear time / pre-warning time (P.025)		
	Direction	-		
	Switch on delay of input	0,0 [Seconds]		
	Switch off delay of input	0,0 [Seconds]		
	Test	No test		

	Input functions Safety A			
	Mode	Draw in safety:		
		Stopping during automatic or jog opening, then only jog		
		closing possible, no reaction during closing		
	Contact type	N.C., Normally closed		
	End position to move to	Same end position as the previously activated input moved		
		to.		
1408	Hold-open time / Priority	Auto close time as used before with the last open		
		command.		
	Clear time	With clear time / pre-warning time (P.025)		
	Direction	-		
	Switch on delay of input	0,0 [Seconds]		
	Switch off delay of input	0,0 [Seconds]		
	Test	Test in the endpostion Door Close and after start up of the		
		controller		

	Input functions	Simulation of foil key pad	
	Mode	OPEN foil key	
	Contact type	N.O., Normally open	
	End position to move to	-	
1501	Hold-open time / Priority	-	
1501	Clear time	-	
	Direction	-	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	Simulation of foil key pad	
	Mode	CLOSE foil key	
	Contact type	N.O., Normally open	
	End position to move to	-	
1502	Hold-open time / Priority	-	
1502	Clear time	-	
	Direction	-	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	Simulation of foil key pad	
	Mode	STOP foil key	
	Contact type	N.C., Normally closed	
	End position to move to	-	
1506	Hold-open time / Priority	-	
1500	Clear time	-	
	Direction	-	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	External detector	
	Mode	External Loop 1	
	Contact type	N.O., Normally open	
	End position to move to	-	
1001	Hold-open time / Priority	Without auto close time	
1001	Clear time	No clear time / pre-warning time	
	Direction	Both directions are cleared	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	External detector	
	Mode	External Loop 2	
	Contact type	N.O., Normally open	
	End position to move to	-	
1002	Hold-open time / Priority	Without auto close time	
1002	Clear time	No clear time / pre-warning time	
	Direction	Both directions are cleared	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	External detector	
	Mode	External Loop 3	
	Contact type	N.O., Normally open	
	End position to move to	-	
1002	Hold-open time / Priority	Without auto close time	
1003	Clear time	No clear time / pre-warning time	
	Direction	Both directions are cleared	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

	Input functions	External detector	
	Mode	External Loop 4	
	Contact type	N.O., Normally open	
	End position to move to	-	
4004	Hold-open time / Priority	Without auto close time	
1004	Clear time	No clear time / pre-warning time	
	Direction	Both directions are cleared	
	Switch on delay of input	0,0 [Seconds]	
	Switch off delay of input	0,0 [Seconds]	
	Test	No test	

20 OPEN commands P.5x0 / P.Ax0 = 1

Parameter P.5x0 / P.Ax0 must be set to 1 in order to activate the basic function OPEN command for this input.

x= number of the input you wish to configure

Ρ.	[Unit] Range	Function	Description/ Note		
P.893 -zz	0 1	Executing open comm while closing	While the door is closing, open commands can be ignored and repeated when it reaches the closed position		
			 An open command that is issued when closing reverses the door when it has opened (except for specially configured close commands, e.g. for barriers) 		
			 An open command that is issued when closing does not reverse the door, the open command is repeated when reaching the lower final position 		

21 Output Profiles

Ρ.	[Unit] Range	Function		Description/ Note
P.701 w	0000 2601	Function of Output 1	The function of the output relay can be specified using profile. All parameters needed for the function of the output changed in one step.	
			0000: 0001: 0101:	Output relay deactivated Continuously turned on Door is Open
			0103:	the gate Doos is Open
			0201.	The message depends on the position of the door Door is Closed
			0201.	The message depends on the logical status of the gate
			0203:	Door is Closed The message depends on the position of the door
			0401: 0501:	There is no error Courtyard light function, switched ON during opening and closing with 10 s switch off delay after opening
			0601: 0602: 0605:	Passing on detector channel 1 Passing on detector channel 2 Passing on of synchron control OPEN (Relay is active during opening in endposition Open and
			0606:	during locking in endposition Open) Passing on of synchron control CLOSE (Relay is active during closing, in endposition Close and
			0607:	during locking in endposition Close) Passing on of synchron control STOP (Relay is active in case of no door drive, no end position and

Ρ.	[Unit] Range	Function		Description/ Note
				no locking in end position)
			0612:	Passing on leaving detector 1
			0613:	Passing on leaving detector 2
			0701:	Flashing during opening and closing and in partial open position
			0801:	Active during opening and closing and during active pre-warning / clearance time.
			1001:	Locking second door
			1002:	Locking second door, 1 s switch off delay
			1101:	Magnet voltage in end position CLOSE
				The N.C. contact of the relay has to be used
			1102:	Magnet voltage during Closing and in end position CLOSE
			1201:	Green traffic light on inside of door
			1210:	Green traffic light on outside of door
			1220:	Red traffic light on inside of door 1
			1221:	Flashing red traffic light on inside of door 1
			1222:	Red traffic light on inside of door 2
			1223:	Flashing red traffic light on inside of door 2
			1224.	red trainc light on inside of door, hashing during
			1250.	Red traffic light on outside of door 1
			1250.	Flashing red traffic light on outside of door 1
			1252:	Red traffic light on outside of door 2
			1253:	Flashing red traffic light on outside of door 2
			1255:	Red traffic light on outside of door, flashing during pre-warning / clearance time
			1295:	Green traffic light, flashing during pre-warning / clearance time, ON in end position OPEN
			1601:	Airlock OPEN
			1701:	Testing in end position close
			1801:	Counting +
			1901:	Counting -
			2001:	Warning light 1, always ON if door is not closed.
			2101:	Active groop traffic light ON in opdosition OPEN
			2201.	until a close command is given or detector 2 gets
			2301:	Active green traffic light, ON in endposition OPEN
				active.
			2501:	Testing in endposition OPEN
			2601:	Flashing, with the exception of limit position OPEN, CLOSE or intermediate stop
			1 Th found	e exact settings which this profile involves can be in Chapter "Overview of Output Profiles"
P.702 w	0000 2601	Function of Output 2	see P.	701 or P.704

21.1 Overview output profiles

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0000	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
0004	position	• · · · · · ·
0001	Bobayiar during aponing	Continuouoly off
	Behavior in Door OPEN end	Continuously off
	Behavior in Door OPEN end position	Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing	Continuously off Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase	Continuously off Continuously off Continuously off Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing	Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing Behavior at stop	Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing Behavior at stop Behavior when there is no	Continuously off
	Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing Behavior at stop Behavior when there is no automatic function	Continuously off

	Switching condition Output relay	If End position Door OPEN was reliably detected
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0101	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
		1
	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
	Behavior during opening	Continuously off
0103	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	nhaco	

position	
Behavior during the clearing	Continuously off
phase	
Behavior during closing	Continuously off
Behavior at stop	Continuously off
Behavior when there is no	Continuously off
automatic function	
Command forwarding	Forwarding door OPEN postion (The forwarding depends
	only on postion and will not interrupted by the clearance
	time or door drive)

	Switching condition Output relay	If End position Door CLOSE was reliably detected
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
0201	Behavior during opening	Continuously off
0201	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
	Behavior during opening	Continuously off
0203	Behavior in Door OPEN end	Continuously off
	position	

Continuously off

Continuously off

Continuously off

Continuously off

time or door drive)

Forwarding door CLOSE position (The forwarding depends only on postion and will not interrupted by the clearance

Behavior during the clearing

Behavior during closing

Behavior when there is no

Behavior at stop

automatic function Command forwarding

phase

	Switching condition Output relay	If there is no fault condition or emergency stop, controller
		in Automatic mode
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
0401	position	
0401	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Courtyard light function, during every OPEN and CLOSE
		move with 10 turn-off delay after opening.
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
0501	position	
0301	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0601	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Detector channel 1
	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000 0 [Seconds]

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0602	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Detector channel 2

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	0,5 [Seconds]
	Turn-on delay	0,1 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0605	Behavior during opening	Continuously off
0005	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Opening, open position, locked in open position
		(synchronous control open)

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	0,5 [Seconds]
	Turn-on delay	0,1 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0606	Behavior during opening	Continuously off
0000	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Closing, close position, locked in close position (Synchron
		controller close)

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	0,5 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
	Behavior during opening	Continuously off
0607	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Neither opening or closing, open or closed position remain
		locked in open or closed position (synchronous control
		stop)

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	1,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0612	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Detector 1 is released

	Switching condition Output relay	Command forwarding
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	1,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
0613	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Detector 2 is released
	Switching condition Output relay	During each OPEN and CLOSE move
	Switching behavior of the relay	0,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]

Green traffic light on inside of door

Continuously off

Output permanent off

Select traffic light type

Behavior during opening

Behavior during closing

Behavior when there is no

Behavior at stop

automatic function Command forwarding

Behavior in Door OPEN end

Behavior during the clearing

position

position

phase

0701

Behavior in Door CLOSE end

	Switching condition Output relay	During each OPEN and CLOSE move and during active
		clearing time.
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
0004	position	
0001	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Forward external door locking (e.g., airlock operation)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1001	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Forward external door locking (e.g., airlock operation)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0.0 [Seconds]
	Turn-off delay	1.0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE and	
	position	Continuousiy on
1002	Position Rehavior during opening	Continuouoly off
1002	Behavior during opening	
	Benavior in Door OPEN end	Continuousiy on
	position Debusies that the share's second	
	Benavior during the clearing	Continuously off
	pnase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Forward external door locking (e.g., airlock operation)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0.0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	
	nosition	
1101	Behavior during opening	Continuously off
1101	Behavior in Door OPEN end	Continuously off
	position	Continuousiy on
	Polyging during the clearing	Continuouoly off
	phase	Continuousiy on
	Polase Robevier during closing	Continuouoly off
	Behavior during closing	Continuously off
	Dehavior when there is no	
	Benavior when there is no	Continuously on
	Automatic function	Output a sure set off
	Command forwarding	Output permanent off
	Outlaking and little Outland and	NATION OF THE PARTY OF THE PART
	Switching condition Output relay	Magnet voltage during closing and in end position close
	Switching behavior of the relay	
	Turn-on delay	0,0 [Seconds]
	l urn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
1102	Behavior in Door CLOSE end	Continuously off
	position	
	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1201	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously on
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green light on outside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1210	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously on
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1220	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 1Hz
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door

	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1221	Behavior during opening	Flashing at 1Hz
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 2Hz
	phase	
	Behavior during closing	Flashing at 1Hz
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1222	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 1Hz
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door

	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1223	Behavior during opening	Flashing at 1Hz
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 2Hz
	phase	
	Behavior during closing	Flashing at 1Hz
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on inside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1224	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Turned on in case that the condition of parameter P.7xF is
	position	fullfilled.
	Behavior during the clearing	Continuously on
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Detector channel 2
	Switching condition Output relay	Traffic light function

	Switching condition Output relay	I rance light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on outside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1250	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 1Hz
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on outside of door
	Behavior in Door CLOSE end	Continuously off
	position	
1251	Behavior during opening	Flashing at 1Hz
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 2Hz
	phase	
	Behavior during closing	Flashing at 1Hz
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]

	owneeding behavior of the relay	
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on outside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1252	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 1Hz
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on outside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1253	Behavior during opening	Flashing at 1Hz
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Flashing at 2Hz
	phase	
	Behavior during closing	Flashing at 1Hz
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Traffic light function
	Curitabing babaying of the value	1000 0 [Sacanda]

	Switching condition Output relay	I raffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Red traffic light on outside of door
	Behavior in Door CLOSE end	Continuously on
	position	
1255	Behavior during opening	Continuously on
	Behavior in Door OPEN end	Turned on in case that the condition of parameter P.7xF is
	position	fullfilled.
	Behavior during the clearing	Continuously on
	phase	
	Behavior during closing	Continuously on
	Behavior at stop	Continuously on
	Behavior when there is no	Continuously on
	automatic function	
	Command forwarding	Detector channel 1

	Switching condition Output relay	Traffic light function
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Direction undepend traffic light
	Behavior in Door CLOSE end	Continuously off
	position	
1295	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously on
	position	
	Behavior during the clearing	Flashing at 1Hz
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Airlock OPEN, forwards OPEN command to second airlock
		door
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
1601	position	
1001	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	Test of draw in safety device.
	······································	Relay is active in Endposition Close and is used e.g. to
		switch of the photo eve of the draw in safety in order to test
		it.
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
4704	Behavior in Door CLOSE end	Continuously off
1701	position	,
	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	Pluse count using detectors when the direction is from the
	Switching condition Output relay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety
	Switching condition Output relay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to
	Switching condition Output relay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open
	Switching condition Output relay Switching behavior of the relay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds]
	Switching condition Output relay Switching behavior of the relay Turn-on delay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds]
	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds]
	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned
	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments]
	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior in Door OPEN end	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior in Door OPEN end position	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior in Door OPEN end position Behavior during the clearing	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior during opening Behavior during the clearing phase Behavior during closing	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing Behavior at stop	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during closing Behavior at stop Behavior when there is no	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off Continuously off
1801	Switching condition Output relay Switching behavior of the relay Turn-on delay Turn-off delay Switch on logic Position forwarding Select traffic light type Behavior in Door CLOSE end position Behavior during opening Behavior during opening Behavior in Door OPEN end position Behavior during the clearing phase Behavior during the clearing phase Behavior at stop Behavior when there is no automatic function	Pluse count using detectors when the direction is from the outside inwards, first one detector is covered for safety purposes and then another detector from the inside to indicate open 1000,0 [Seconds] 0,0 [Seconds] 0,5 [Seconds] Not turned 0 [Increments] Green traffic light on inside of door Continuously off Continuously off Continuously off Continuously off Continuously off
	Switching condition Output relay	Pluse count using detectors when the direction is from the
------	---	--
		inside outwards, first covers one detector as opening from
		the inside and then another detector for safety purposes
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,5 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
1901	position	
	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Switching condition Output relay	If not at end position close and during clearance time
		(warning light 1)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
2001	position	• • • • •
	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	Behavior during the clearing phase	Continuously off
	Behavior during the clearing phase Behavior during closing	Continuously off Continuously off
	Behavior during the clearing phase Behavior during closing Behavior at stop	Continuously off Continuously off Continuously off Continuously off
	Behavior during the clearing phase Behavior during closing Behavior at stop Behavior when there is no	Continuously off Continuously off Continuously off Continuously off

Command forwarding Output permanent off

	Switching condition Output relay	During clearance time before and during closing (warning light 2)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
2101	position	
2101	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	In automatic mode in the final position open until a close command is active or detector channel 2 is occupied in
		manual mode in final position open or if vehicles are still in
		the queue of moving traffic (active green traffic light /
		inactive red traffic light)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
2201	Behavior in Door CLOSE end position	Continuously off
	Behavior during opening	Continuously off
	Behavior in Door OPEN end position	Continuously off
	Behavior during the clearing phase	Continuously off
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

	Switching condition Output relay	In automatic mode in the final position open until a close
		command is active or detector channel 1 is occupied, in
		manual mode in final position open (active green traffic
		light / inactive red traffic light)
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
2301	Behavior in Door CLOSE end	Continuously off
	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	Polovier during closing	Continuously off
	Behavior during closing	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off
	Command for warding	
	Switching condition Output relay	Test at the End-Position Door Open
		Relay works at the End- Position Door Open
	Switching behavior of the relay	1000.0 [Seconds]
	Turn-on delay	0.0 [Seconds]
	Turn-off delay	0.0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
2501	position	
2501	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	• • • • •
	Benavior during closing	Continuously off
	Benavior at stop	
	Benavior when there is no	Continuously off
	automotio function	
	automatic function	Output normonent off

	Switching condition Output relay	Output is switching during emergency open test
	Switching behavior of the relay	1000,0 [Seconds]
	Turn-on delay	0,0 [Seconds]
	Turn-off delay	0,0 [Seconds]
	Switch on logic	Not turned
	Position forwarding	0 [Increments]
	Select traffic light type	Green traffic light on inside of door
	Behavior in Door CLOSE end	Continuously off
	position	
2601	Behavior during opening	Continuously off
	Behavior in Door OPEN end	Continuously off
	position	
	Behavior during the clearing	Continuously off
	phase	
	Behavior during closing	Continuously off
	Behavior at stop	Continuously off
	Behavior when there is no	Continuously off
	automatic function	
	Command forwarding	Output permanent off

22 Airlock function

Ρ.	[Unit] Range	Function	Description/ Note
A.830	0000 0100	Airlock mode	This parameter specifies the mode of the airlock system.
			0000: Airlock deactivated 0100: Simple airlock, the second door will lock, no open
			commands given to the second door

Ρ.	[Unit] Range	Function		Description/ Note
P.910 -ww	0 31	Display mode selection	With th listed b	e aid of this parameter you can show the variables pelow in the display of the door controller.
			The fol	llowing variables are displayed
			0: 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15: 16: 17: 18: 19: 20: 21: 22: 23:	The control sequence is displayed (Automatic) [Hz] The current travel speed [A] The current motor current [V] The current DC-Bus current [V] The current DC-Bus voltage [°C] The power stage temperature in °Celsius [°F] The power stage temperature in °Fahrenheit [s] The run-time of the motor during the last door operation [Increments] The current position [Increments] The current position [Increments] The current position [Increments] The current position [Increments] The position of the reference [Dig] Channel 1 value of the absolute encoder [Dig] Channel 2 value of the absolute encoder [V] Current reference voltage [°C] Temperature inside the housing in °Celsius [°C] Temperature inside the housing in °Fahrenheit Transmission ratio from motor to encoder during opening Transmission ratio from motor to encoder during closing Rotation speed of the TST PD shaft ① Only with TST PD Temperature of the absolut encoder TST PD Battery voltage of absolute encoder TST PD Number of position requisition without answere from encoder Number of wrong received signs in TST PD encoder (activates also the output in P.955) Radio quality of the wireless safety device in %.
			24. 31·	during the last door drive. Shows the speed of the motor shaft in Hz
			B FUS.	ttings 14 and 15 are only possible when using TST

23 Diagnostics display

Ρ.	[Unit] Range	Function	Description/ Note
P.920 rww		Error Memory	The controller stores the last four errors in the error memory.
			After opening Parameter P.920: - Change level using OPEN and CLOSE keys - Opening the error memory with the STOP key - Closing the error memory with the STOP key - Exiting Parameter P.920 with Eb -
			Eb1: Error message 1 (most recent error) Eb2: Error message 2 Eb3: Error message 3 Eb4: Error message 4 Eb5: Error message 5 Eb6: Error message 6 Eb7: Error message 7 Eb8: Error message 8 Ebc1: Clear the complete error memory Eb-: Exit, jump back to P.920
			$oldsymbol{0}$ Er- in the display means that no error was entered.

24 Error Memory

25 S	25 Software Version				
Ρ.	[Unit] Range	Function	Description/ Note		
P.925 rrr		Software Version	This parameter displays the version of the currently used software.		

26 D	26 Door run-Time				
Ρ.	[Unit] Range	Function	Description/ Note		
P.930 -rr	[Seconds]	Motor run-time	In this parameter the time required for the last drive operation is stored.		

27 Testing of emergency opening

This funktion is used to make sure that the emergency opening is working. For that the time that the door needs for a full opening, is measured. If it takes to long, the erroemessage F.021 appears and a user intervention is necessarry.

The testing happens every time from endposition close, under the following conditions:

- 1. After power on with the first message door is close.
- 2. After the door cycles set in P.492, after power on or after the last testing.
- 3. After the time set in P.493, after power on or after the last testing.

Ρ.	[Unit] Range	Function	Description/ Note
A.490	0 1	Application emergency opening test	With this application the checking of the emergency opening test is set.
			0: Deactivation emergency opening test
			1: Mechanical emergency opening test
P.040 www	0 1	Activation of the emergency opening test	This parameter specifies if the emergency opening test is activated or deactivated.
			0: Emergency opening test deactivated
			1: Emergency opening test activated
			1 This parameter is only available in the highest passwort level.

28 Inp	28 Input Voltage Measurement			
P.	[Unit]	Function	Description/ Note	
	Range			
P.940 -rr	[Volt]	Input voltage	In this parameter the amount of the currently present input voltage is displayed.	

Ρ.	[Unit] Range	Function	Description/ Note	
P.980 -ww	0 5	Operating mode	This parameter is used to set the operating mode for the controller.	
			The following modes are possible:	
			0: OPEN and CLOSE move in self-holding (Automatic)	
			 OPEN move in self-holding, CLOSE move in manual mode (partial automatic) 	
			2: OPEN and CLOSE move in Manual mode (deadman)	
			3: Deadman emergency operation	
			All safety devices and limit switches are ignored.	
			 Endurance test with safety devices Automatic OPEN and CLOSE operation. Before each new operation the hold-open time P.010 is in effect. 	
			5: Endurance test without safety devices ATTENTION All safety devices are ignored.	
			1 The endurance test setting is lost after turning off the controller. The controller then reverts to manual mode.	

29 Operating Mode of the Controller

30 Password

1 The password is not setable on the customer level

P. [Unit] Range	Function	Description/ Note
P.999 0000 -ww FFFF	Password	The password provides access to the various parameter levels. There are different parameters visible depending on the password level. A changing of parameters without to know there functionality is forbidden. In order to avoid failure and endangering because of unauthorized access passwords are only allowed to give to trained staff.

31 Factory Setting / Defaults					
Ρ.	[Unit]	Function	Description/ Note		
	Range				
P.990	0 1	Factory setting	By setting and saving this parameter to 1 all parameter		
-ZZ			values are restored to their original value.		

32 Softwareupdate				
Ρ.	[Unit] Range	Function	Description/ Note	
P.989 -ww	0 1	Start a software update	Starts the boot loader. Now the firmware update can be programmed via the encoder interface. The Cycle LED flashes while the bootloader is running.	

33 Forced closing	time
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Ρ.	[Unit] Range	Function	Description/ Note
P.012 -ww	[Seconds] 0 200	Forced closing time	The closing starts after the time set with this parameter. The time starts as soon as no opening or closing is active. The hold open time and the clearance time have a higher priority. That means if one of these times is running the forced closing time will not run. The same is if the door or barrier is in the open position by switching on the controller.

34 Breakaway-function

In case of an tripped breakaway input the breakaway counter will count up by 1. In case of breakaway only dead man move is possible. The breakaway error must be resetet manually.

Ρ.	[Unit] Range	Function	Description/ Note
P.871		Breakaway counter	This parameters shows the number of counted crashes.
rrr			

35 Parameter Summary

Ρ.	Function	Default	Changed of: at:	Page
A.490	Application emergency opening test	0		79
A.830	Airlock mode	0000		76
A.F00	FSx Wireless safety system profile	0000		24
P.000	cycle counter	[Cycles]		5
P.005	Maintenance counter	[Cvcles]		5
P.010	Auto close time 1	10 [Seconds]		5
P.011	Auto close time 2	10 [Seconds]		5
P.012	Forced closing time	0 [Seconds]		81
P.025	Pre-warning time before closing	0 [Seconds]		6
P.026	Pre-warning time before closing from between the end positions	0		6
P.040	Activation of the emergency opening test	0		79
P.100	Motor rated frequency	[Hz]		7
P.101	Motor rated current	[A]		7
P.102	Power factor cos Phi	[%]		7
P.103	Motor rated voltage	[Volt]		7
P.110	Drive profile	0		8
P.130	Motor rotary field	1		8
P.140	Boost for OPEN	0 [%]		9
P.141	Start frequency of the frequency ramp stop for OPEN	20 [Hz]		10
P.142	IxR compensation for OPEN	0 [Hz]		11
P.143	Voltage reduction for OPEN	100 [%]		11
P.145	Boost for CLOSE	0 [%]		9
P.146	Start frequency of the frequency ramp stop for CLOSE	20 [Hz]		10
P.147	IxR compensation for CLOSE	0 [Hz]		11
P.148	Voltage reduction for CLOSE	100 [%]		12
P.202	Transmission ratio			12
P.205	Selecting the positioning system profile			12
P.210	New teaching of the end positions	5		13
P.215	Requesting correction of the pre-limit switch and limit switch bands	0		13
P.216	Activating auto correction / Selecting the ramp setting mode	2		14
P.217	Tolerance band of automatic end switch correction	50		14
P.221	Correction value End position door CLOSE	0 [Increments]		15
P.222	Pre-limit switch position Door CLOSE	400 [Increments]		16
P.231	Correction value End position Door OPEN	0 [Increments]		18
P.232	Pre-limit switch position Door OPEN	500 [Increments]		20
P.25F	Synchronization type profile	4		22
P.310	Travel frequency for rapid OPEN	60 [Hz]		19
P.311	Duration of start ramp "r1"	60 [10 ms]		19
P.312	Acceleration of start ramp "r1"	100 [Hz/s]		19
P.320	Creep speed frequency for OPEN	20 [Hz]		20
P.321	Duration of brake ramp "r2"	50 [10 ms]		21
P.322	Acceleration of brake ramp "r2"	80 [Hz/s]		21
P.340	Duration of stop ramp "r STOP-A" after stop is	75 [10 ms]		21
	triggered			

Ρ.	Function	Default	Changed of: at:	Page
P.342	Acceleration of stop ramp " r STOP-A" after stop is triggered	150 [Hz/s]		22
P.350	Travel frequency for rapid CLOSE	40 [Hz]		15
P.351	Duration of start ramp "r5"	50 [10 ms]		16
P 352	Acceleration of start ramp "r5"	80 [Hz/s]		16
P 360	Creep speed frequency for CLOSE	20 [H ₇]		17
P 361	Duration of brake ramp "r6"	50 [12]		17
D 362	Acceleration of brake ramp "r6"			17
P 382	Acceleration of ston ramp "r STOP-7" after stop is	150 [Hz/s]		17
F.302	triggered	150 [112/5]		10
P.460	profile internal safety edge	6		31
P.466	External testing of safety edge	0		31
P.501	Function of Input 1	0101		31
P.502	Function of Input 2	0401		32
P.503	Function of Input 3	0701		32
P.504	Function of Input 4	0201		32
P.505	Function of Input 5	0501		32
P.506	Function of Input 6			32
P.507	Function of Input 7			32
P.508	Function of Input 8			32
P.509	Function of Input 9			32
P.701	Function of Output 1	0101		53
P.702	Function of Output 2	0201		54
P.871	Breakaway counter			82
P.892	Oncomming traffic control	1		6
P.893	Executing open comm while closing	0		53
P.910	Display mode selection	0		77
P.920	Error Memory	0		78
P.925	Software Version	•		78
P.92A	Softwareversion FSx mobile unit			23
P 92B	Software version FSx stationary unit			23
P 930	Motor run-time	[Seconds]		78
P 940		[Volt]		79
P 073	Resetting the maintenance counter	0		5
P 980	Operating mode	0		80
P 080	Start a software undate	0		81
P 000	Factory setting	0		81
D 000	Password	0000		81
D 0E0	Capacity of battery	0.000		23
D 0E1	Battery voltage of radio safety system	0 [76]		23
	Wireless status	[VOIL]		23
	Activation of the wireless	[/0]		23
P E01	Timpout for the wireless	<u> </u>		23
				23
P.F03		I		23
P.F07	Address of the mobile unit			23
P.F09	Battery nominal voltage	3,6 [VOIt]		23
P.F10		<u> </u>		25
P.F11	Salety	2		26
P.F12	Contact type	0		26
P.F13	Debouncing time	1		26
<u>P.F16</u>	Output	1		26
P.F17	Direction 1	0		26
P.F18	Handshake	0		26
P.F1F	Function input 1	0000		24
P.F20	Mode input 2	0		27
P.F21	Safety	2		27

Ρ.	Function	Default Changed of: at:	d Page
P.F22	Contact type	0	27
P.F23	Debouncing Time	1	27
P.F26	Output	1	27
P.F27	Direction 2	0	27
P.F28	Handshake	0	28
P.F2F	Function input 2	0000	24
P.F30	Mode input 3	0	28
P.F31	Safety	2	28
P.F32	Contact type	0	28
P.F33	Debouncing time	1	28
P.F36	Output	1	29
P.F37	Direction 3	0	29
P.F38	Handshake	0	29
P.F3F	Function input 3	0000	25
P.F40	Mode input 4	0	29
P.F41	Safety	2	29
P.F42	Contact type	0	30
P.F43	Debouncing time	1	30
P.F46	Output	1	30
P.F47	Direction 4	0	30
P.F48	Handshake	0	30
P.F4F	Function input 4	0000	25
P.FF2	Mode output 2	0	23