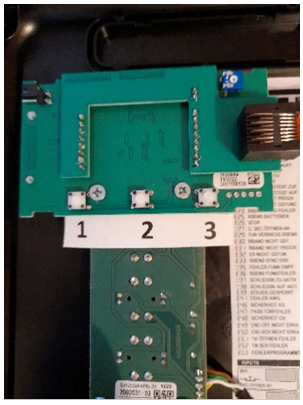
DoorTec Deutschland

Parameter List Pro-Door-Automatic



Explanation of keys and function.

3 buttons are arranged on a circuit board in the cover.

Button 1, selection of parameter group, opening of parameters and confirmation when changing a parameter.

Buttons 2 and 3 together, open selected parameter groups, hold down for approx. 3 seconds, select parameters in the parameter groups, change parameters.

Parameter Groups

1.) PROGRAMMING
2.) PARAM CONFIG
3.) DIAGNOSIS
4.) SET LANGUAGES
5.) SET MESSAGE
6.) Parameter

1.)PROGRAMMING:

Currently for viewing only.

2.) PARAM CONFIG

1.) Press button 1. "Programming" now appears on the outside of the display. Press button 1 again. "PARAM CONFIG" now appears in the display.

2.) Press and hold buttons 2 and 3 together for about 3 seconds, then release. The first parameter sets now appear in the display. By pressing button 2 or 3, up or down, you can choose from the following parameter sets.

EDIT PARAM, EDIT INPUTS, EDIT OUTPUTS, EDIT ON/OFF, EDIT NUMERIC, EDIT SWITCH.

3.) Open the selected parameter set by pressing button 1 once. The display now shows "Please wait loading data".

4.) When the data, parameters, are loaded, select the desired parameter with button 2 or 3 and open the parameter by pressing button 1.

5.) Select the desired function and confirm the selection by pressing button 1.

3.) Diagnosis

1.) Press button 1. "Programming" now appears on the outside of the display. Press button 1 again until "DIAGNOSTICS" appears on the display.

2.) Press and hold buttons 2 and 3 together for about 3 seconds, then release. The first parameter sets now appear in the display. By pressing button 2 or 3, up or down, you can choose from the following parameter sets.

TEST INPUTS, TEST OUTPUTS, TEST SWITCHES.

3.) Open the selected parameter set by pressing button 1 once. The display now shows "Please wait loading data".

4.) When the data, parameters, are loaded, select the desired parameter with button 2 or 3 and open and check the parameter by pressing button 1.

4.) SET LANGUAGES

1.) Press button 1. "Programming" now appears on the outside of the display. Press button 1 again until "SET LANGUAGE" appears on the display.

2.) Press and hold buttons 2 and 3 together for about 3 seconds, then release. The following possible languages now appear in the display one after the other.

GERMAN, ENGLISH, FRENCH, SPANISH,

3.) Select the respective language by pressing button 2 or 3 and keep it pressed, then also press button 2 or 3 and hold both together for approx. 3 seconds. The changed language is now shown in the display.

5.) SET MESSAGE

5.1.) Mittels Taste 1 das Programm ,,Ändern Nachr“ auswählen, die Nachricht besteht aus 2 Zeilen.

6.2.) Taste 2 und 3, zusammen ca. 3 Sek. gedrückt halten dann loslassen. Jetzt erscheinen im Display ,,Andere Zeile1“. Durch Drücken der Tasten 2 oder 3, rauf bzw. runter, kann zwischen ändern der ,, Andere Zeile1 oder Andere Zeile2“ gewählt werden.

6.3.) Nun die Taste 1 einmal drücken, jetzt blinkt die erste Stelle. und der

6.4.) Die erste Position kann nun mit Taste 2 verändert werden. Buchstaben Alphabetisch , Zahl, Punkt, Komma Strich usw.

6.5.) Mit Taste 1 wird zur nächsten Stelle gewechselt.

6.6.) Zum Schluss durch einmaliges Drücken die Änderung bestätigen.

PARAMETERS

The configurable parameters of the control panels are grouped by parameter type as follows.
All these parameters depend on the installation type, used motor and used safety devices. Furthermore they depend on the needs of each installation like maneuver timings, speeds of the door, etc…

ON/OFF Option parameters

The ON/OFF parameters allows enable or disable control panel functions according to the needs of each installation.
The parameters marked with the file in grey are only read parameters and they cannot be modified.

Num.	0 = On / 1 = Off	Description	Models
02	Auto close	Enables the autoclose function that allows closing automatically the door after a certain period of time in opened position.	M8, M22, I20, I30, F30, KEEROLL
03	No stop on opening	Enables the non inversion at opening function that avoids stopping the opening maneuver if an “alternative” or “close” pushbutton is pressed. See section 7.9.	M8, M22, I20, I30, F30, KEEROLL
06	Inhib.4cm S.EDGE.CL	Enables the safety edge inhibition function during the last 4cm of the closing movement that allows the activation of the safety edge during the last 4 cm of the closing maneuver without taking it into account. This function is common for 8k2 resistive safety edges, optical safety edges and for Radioband system. See section 7.15.	M8, M22, I20, I30, F30, KEEROLL
07	Dead man	Enables the deadman function that allows moving the door even securities are activated. See section 7.8.	M8, M22, I20, I30, F30, KEEROLL
08	SEC.CL inhibition	Enables the closing safety contact inhibition function that allows inhibit the closing safety contact for a specific zone of the closing maneuver. This function is used in 2-leaf up and over doors that are installed in such way that the door passes in front of the closing safety contact when it executes the closing maneuver. See section 7.16.	M8, M22, I20, I30, F30, KEEROLL
09	FC.OP installed	Indicates whether, during programming, the panel has found and memorized a limit switch on opening and, therefore, will act accordingly. In most cases, it will open until this is found, adding pulses or time if required.	M8, M22, I20, I30, F30, KEEROLL
0A	FC.CL installed	Indicates whether, during programming, the panel has found and memorized a limit switch on closure and, therefore, will act accordingly. In most cases, it will close until this is found, adding pulses or time if required.	M8, M22, I20, I30, F30, KEEROLL
0E	Time mode	Enables the operation by Time, i.e. the position is controlled by counting time. See section 7.2.	M8, M22, I20, I30, F30, KEEROLL
18	SEC.CL programmed	Indicates if the closing safety contact has been programmed during the manoeuvre. **Warning! The safety contact inhibition during the closing movement may not comply with regulations.**	M8, M22, I20, I30, F30, KEEROLL
1A	Closing by CSEC	Enables the closure by safety contact that allows closing automatically the door after safety contact has been activated (when car has already exited/entered). See section 7.7.	M8, M22, I20, I30, F30, KEEROLL
23	RBAND detected	Indicates the RBAND presence, if it has been detected on programming mode.	M8, M22, I20, I30, F30, KEEROLL
24	Error info displayed	Enables the advanced level of errors/warnings displayed. See section 7.27.	M22, I20, I30, F30
26	Motor outputs inverted	Enables the sense inversion of motor outputs.	M8, I20, I30, F30, KEEROLL

28	RBAND mode	Enables the RBAND mode that function allows using the Radioband safety system on the VERSUS control panels. See section 7.10.	M8, M22, I20, I30, F30, KEEROLL
29	RSENS mode	Enables the RSENS mode that allows using the Radiosens safety system on the VERSUS control panels. See section 7.11.	M8, M22, I20, I30, F30, KEEROLL
2A	RSENS detected	Indicates the RSENS presence, if it has been detected on programming mode.	M8, M22, I20, I30, F30, KEEROLL
2E	Deadman if RSEC virgin	Enables dead man operating if a not programmed RSEC/R is detected.	M8, M22, I20, I30, F30, KEEROLL
2F	Autodetect OptoEdge IN1	Indicates that the IN1 input is configured as optical edge input.	M8, M22, I20, I30, F30, KEEROLL
30	Autodetect OptoEdge IN2	Indicates that the IN2 input is configured as optical edge input.	M8, M22, I20, I30, F30, KEEROLL
31	Autodetect OptoEdge IN3	Indicates that the IN3 input is configured as optical edge input.	M8, M22, I20, I30, F30, KEEROLL
91	Pre-FLASH option	Enables the pre-flash function at the beginning of the manoeuvre. See section 7.18.	M8, M22, I20, I30, F30, KEEROLL
92	RSENS Dynamic Radio	Enables the dynamic adjustment mode the radio power for the RSENS.	M8, I20, I30, F30, KEEROLL
B1	Block On/off by password	Enables the blockage of the control panel via password (default value 0000). See section 7.24.	M8, M22, I20, I30, F30, KEEROLL
B4	Current blockage status	Indicates if the control panel is blocked currently. See section 7.24.	M8, M22, I20, I30, F30, KEEROLL
B6	Recharge maneuver	Enables the activation of the recharge maneuver during 3 seconds each hour. See section 7.23.	M8, M22, KEEROLL
BD	Reverse strike at open	Enables the reverse strike at open. Once the open command has been received, the door will close during a little period of time to be able to liberate the door and then it will begin the opening sequence. See section 7.12.	M8, M22, I20, I30, F30, KEEROLL
BE	Absolute encoder mode	Enables the operating by absolute encoder, that means that the position control is done by the absolute encoder control.	I20, I30, F30
C3	Step by step sequence	Enable step by step sequence operating through start button.	M8, M22, I20, I30, F30, KEEROLL
C6	Partial inversion during closing movement	Enable the partial inversion during closing movement that means that if during the closing movement a safety element is activated, it will opens partially the door.	M8, M22, I20, I30, F30, KEEROLL
D6	Output alarm by fire alarm + closing safety activated	Enable fire alarm output by a fire alarm plus a closing safety activated. In OFF, the output is activated when there is only a fire alarm activated. See section 7.29.	M8, M22, I20, I30, F30, KEEROLL
D7	Automatic opening by fire alarm	Enable the automatic opening by fire alarm activation. In OFF performs an automatic closing by the same fire alarm activation. See section 7.29.	M8, M22, I20, I30, F30, KEEROLL
DC	Autodetect OptoEdge IN8	Indicates that the IN8 input is configured as optical edge input.	M22, I20, F30
F0	Test FC	Travelling limit test to comply with safety regulations.	M8, M22, I20, KEEROLL
F1	Test DM	Dead-man button test to comply with safety regulations.	M8, M22, I20, KEEROLL
F2	Prog by Encoder	Indicates that the programming sequence was conducted with encoder.	M8, M22, I20, KEEROLL
F5	DM on failure	ON: Activates dead-man in safety when beginning the operation.	M8, M22, I20, KEEROLL

1.1 Numeric parameters

The numeric parameters allow defining different values of the control panels.
Note: When the ***V-DPLAY*** is used to read and/or configure parameters, it must be taken into account the following. The ***V-DPLAY*** card only shows the two first digits of the most weight of the value. The real value then will be the value showed on the display multiplied by a scale factor (DPLAY factor), indicated on the third column of the table.

Real value = showed value * DPLAY factor

For example, if, for the 33 parameter, the display shows a 2, the real value will be $2*1000=2000$.

Num.	Numeric	Description	Models
5	Time/pulse extra inv.	Time or pulse number added in each inversion.	M8, M22, I20, I30, F30, KEEROLL
32	Limit maneuvers	Limit number of panel movements as of which a special mode is enabled (operating or notification mode) in order to indicate that door maintenance is required.	M8, M22, I20, I30, F30, KEEROLL
33	Opening stop point	Stop point for the opening movement. In the case of operations by pulses, it indicates the number of pulses required to open from the ground synchronism or closed door. The ground is normally point 0. In the case of operations by time, the entire opening movement operation duration is indicated. The panel returns the count in slow speed units, the program recalculates by adding the slow and normal speeds, multiplied by the normal/slow ratio factor, as applicable.	M8, M22, I20, I30, F30, KEEROLL
34	Closing stop point	Stop point for the closure movement. In the case of operations by pulses and on most panels, this is position value 0. It will be of no use for controlling the position of the door. In the case of operations by time, the entire closure movement operation duration is indicated. The panel returns the count in slow speed units, the program recalculates by adding the slow and normal speeds, multiplied by the normal/slow ratio factor, as applicable.	M8, M22, I20, I30, F30, KEEROLL
37	Open Ped.stop point	Stop point for the door during pedestrian opening movements. See section 7.3.	M8, M22, I20, I30, F30, KEEROLL
38	Close Ped.stop point	Stop point for the door during pedestrian closure movements. See section 7.3.	M8, M22, I20, I30, F30, KEEROLL
3B	SEC.CL inhib.point	Point at which safety contact inhibition is started during the closing movement.	M8, M22, I20, I30, F30, KEEROLL
3E	Max.time/pulses to limit	Number of pulses or time to be added to the opening and closure movement to search for the reference, i.e. to reach the end of run or mechanical stop memorised during programming.	M8, M22, I20, I30, F30, KEEROLL
3F	Inertia opening	Number of pulses that the door has run with the motor at a standstill due to inertia during opening operations.	I20, I30, F30
40	Inertia closing	Number of pulses that the door has run with the motor at a standstill due to inertia during closure operations.	I20, I30, F30
41	Autoclose value	Auto-close time.	M8, M22, I20, I30, F30, KEEROLL
42	Inhib.zone start point	Size of the inhibition zone of any safety device at the end of the maneuver.	M8, M22, I20, I30, F30, KEEROLL

47	Max.safety detections	Number of safety trigger reversals permitted before auto-close is inhibited. Where the door exceeds this maximum number of consecutive closure reversals without being able to close completely, the auto-close function will be disabled.	M8, M22, I20, I30, F30, KEEROLL
4A	Electrolock time	Activation time of the electrolock.	M8, M22, I20, I30, F30, KEEROLL
4B	Courtesy light time	Activation time of the garage light.	M8, M22, I20, I30, F30, KEEROLL
4C	Flash frequency	Flash period time.	M8, I20, I30, F30, KEEROLL
50	Panic signal period	Activation time of the panic signal.	M8, I20, I30, F30, KEEROLL
53	RSENS inhib.margin	Inhibition zone of the closing maneuver of RSENS.	M8, M22, I20, I30, F30, KEEROLL
B2	Password value	Password's value for the blockage of the control panel.	M8, M22, I20, I30, F30, KEEROLL
B3	Inversion time by SEC.CL	Inversion time after closing safety detection.	M8, M22, I20, I30, F30, KEEROLL
C0	Maintenance counter	Maintenance counter. It increases in each full maneuver (opening + closing).	M8, M22, I20, I30, F30, KEEROLL
D5	Autoclosing or auto-opening time (in second units) when fire alarm activated.	Autoclosing or auto-opening time (in second units) when fire alarm activated. Once fire alarm activated, the door will open or close automatically when this time is finished.	M8, M22, I20, I30, F30, KEEROLL
E5	Open Inversion Time	Safety inversion stop time value while opening	I20, F30
F3	LogModAct	Logger modules activation.	M8, M22, I20, KEEROLL
F4	LogLevel	Logger level.	M8, M22, I20, KEEROLL

(*) The password value is composed of 4 digits so that it can take values from 0000 to 9999. As it is modified the V-DPLAY accessory, first introduce the first 2 digits higher (P1) and then the other 2 digits (P2).

1.2 Switch parameters

The switch parameters allow assigning different functions to each option of the switch. Each switch input (option) can have different values; they are indicated on the third column of the following table.
If there is a physical switch on the board with one of the following parameters associated, it will be taken into account always. That means, if option 1 of the physical switch on the board has assigned the function Autoprogramming and it is at ON, and the parameter 01 (Autoprogramming) is at OFF, the control panel will take the value Autoprogramming at ON.

1.2.1 Switch parameters

Num	Switch	Available values - description			Models
54	Switch 1	0	NO FUNCTION	The switch has not got a defined function	M8, M22, I20, I30, F30, KEEROLL
		1	AUTOPROGRAMMING	Enables the autoprogramming function	
		2	AUTOCLOSE	Enables the autoclose function	
55	Switch 2	3	NOSTOP ON OPENING	Enables the non inversion at opening function	M8, M22, I20, I30, F30, KEEROLL
		4	SLOW SPEED	Enables the slow speed	
		5	ELECTROLOCK	Disables the electrolock function	
56	Switch 3	6	INH.4CM S.EDGE.CL	Enables the safety edge inhibition function during the last 4cm of the closing movement.	M8, M22, I20, I30, F30, KEEROLL
		7	DEAD MAN	Enables the deadman function	
		8	SEC.CL INHIBITION	Enables the closing safety contact inhibition function.	
57	Switch 4	9	RSENS CONFIG	Enables the RSENS mode.	M8, M22, I20, I30, F30, KEEROLL
		10	RBAND CONFIG	Enables the RBAND mode.	
		11	TIME/HALL CONFIG	Configures: 1 - ON: Time function; 2 - OFF: HALL function	
58	Switch 5	12	SEC.CL TEST	Enables the closing safety contact autotest	M22, I20, I30, F30, KEEROLL
		13	SEC.OP TEST	Enables the opening safety contact autotest	
		14	PRE-FLASH	Enables the pre-flash function	
59	Switch 6	15	CLOSING BY SEC.CL	Enables the closing safety contact	M22, I20, I30, F30, KEEROLL
		16	COURTESY LIGHT/FLASH	Configures: 1 - ON: garage light output; 2 - OFF: flash output	
		17	TEST PRESSURE SWITCH	Configuration test pressure switch function.	
5A	Switch 7	18	INH.OP.PRESSURE SW	Enables the inhibition function of the pressure switch during the opening sequence.	M22, I20, I30, F30
		19	SEC.CL OPEN REF	Configuration of close safety contact as opening reference function.	
5B	Switch 8	20	AUTO DETECT.FC.	Configuration of the autodetection of limit switches by current (AC motors).	M22, I20, F30
		21	REVERSE STRIKE	Configuration of the reverse strike at open.	
		22	SEC. OPEN & CLOSE	Configuration closing safety contact as closing/opening safety contact function	
		23	OPEN DM OR AUTO (*)	Configuration opening sequence in deadman in comercial mode. In OFF the opening is made by deadman	
		24	COMMERCIAL MODE (*)	Configuration commerce and garage mode functions	

5C	Switch 9	25	INVERT BOLLARD OUTPUT	Output configurated as inverted bollard output.	M22, I20, F30
		26	TWO MOTORS MODE	Enables the function to use control panel to control two motors.	
		27	PULSE(OFF)-C.LIGHT(ON)	Configuration output is PULSE 2sec (OFF) or COURTESY LIGHT (ON) function	
		28	FIXED FLASH	Configuration to fix flash output to use electronic flash lights	
		29	CHARGE MANEUVER	Configuration to enable charge maneuver every 1 hour during 3 seconds.	
		30	AUTOMATIC FIRE OPEN	Enables the automatic opening due to the deactivation of the fire alarm signal.	
		31	DM BUTTON&RADIO	Configuration dead man function by using buttons or radio (active in OFF position)	
		32	CLOSING DM MODE	Configuration dead man mode forced in closing maneuver	
		33	SLOW SPEED CL OFF (**)	Configuration to disable slow speed during closing maneuver	
		34	ELECTRO BRAKE	Configuration to disable electro-brake function	
		35	ABS ENCODER	Configuration to disable ABS encoder function	
		36	LEARN INHIB SEC CL	Configuration to enable learning closing security contact inhibition zone	
		37	DEAD MAN OPEN	Configuration to enable dead man function OPENING	
		38	DEAD MAN CLOSE	Configuration to enable dead man function CLOSING	
		39	DUAL FUNCT.SEC.OP.	Configuration to enable opening security contact as opening/closing security contact	
		40	FINE ADJUSTEMENT	Configuration to enable fine adjustment	
		41	RADIO ALT/OP+CL.	Configuration to change radio function. OFF -> CH1 = ALT, CH2 = No function, ON -> CH1 = OPEN, CH2 = CLOSE	
		42	INTRUSION ALARM	Configuration to enable intrusion alarm	
		43	COURT. LIGHT/ALARM	Configuration output is COURTESY L. (OFF) or INTRUSION ALARM (ON) function	
		44	8K2/OPTICAL	Configuration output is 8K2 safety edge (OFF) or OPTICAL safety edge (ON) function	
		45	ELECTROMEC/HYDR	Select motor type (Electromecanichal or Hidraulic)	
		46	OPEN/START	Select function of Input type START_OPEN. START when SW is OFF, OPEN when SW is ON.	
		47	ABSENCODER/LIMITSW	Configuration ABS encoder function (ON = ABS encoder enabled, OFF = END LIMIT SWITCH mode enabled)	
		48	DEAD MAN SAFETY	Configuration to enable dead man on safety function	
DB	Switch 10				M22, I20, F30
E4	Switch 11				I20, F30

(*) This function is only available for some models
(**) This function is special and only valid for control panel M22

1.2.2 Jumpers

Jumper	Function
JP	If cut off does not allows Side-prog programming

1.3 Input parameters

The input parameters allow configuring each available input of the control panel. Each input can have different values; they are indicated on the third column of the following table.

Num	Inputs	Available values - description			Models
5E	IN 1:IN10	0	NO FUNCTION	The input has not got a defined function.	M8, M22, I20, I30, F30, KEEROLL
		1	8k2 S.EDGE.CLOSE	Closing safety edge input (8k2) .	
5F		2	8K2 S.EDGE.OPEN	Opening safety edge input (8k2).	M8, M22, I20, I30, F30, KEEROLL
		5	FC.OP M1	M1 motor opening limit switch input (NC).	
		6	FC.OP M2	M2 motor opening limit switch input (NC).	
60		7	FC.CL M1	M1 motor closing limit switch input (NC).	M8, M22, I20, I30, F30, KEEROLL
		8	FC.CL M2	M2 motor closing limit switch input (NC).	
		9	SEC.OP	Opening safety contact input (NC).	
		10	SEC.CL	Closing safety contact input (NC).	
		11	STOP	Stop pushbutton input (NC).	
61		12	START	Start pushbutton input (NO).	M22, I20, I30, F30, KEEROLL
		13	OPEN	Open pushbutton input (NO).	
		14	CLOSE	Close pushbutton input (NO).	
62		15	PEDESTRIAN START	Pedestrian pushbutton input (NO).	M22, I20, I30, F30, KEEROLL
		16	PEDESTRIAN OPEN	Open pedestrian pushbutton input (NO).	
B8		17	DEAD MAN OPEN	Open pushbutton input in deadman mode (NO).	M22, I20, I30, F30
		18	DEAD MAN CLOSE	Close pushbutton input in deadman mode (NO).	
B7		19	DEAD MAN OP-CL	Start pushbutton input in deadman mode (NO).	M22, I20, F30
		20	HALL_A MOTOR 1	HALL A for M1 motor input	
DA		21	HALL_B MOTOR 1	HALL B for M1 motor input	M22, I20, F30
		22	HALL_A MOTOR 2	HALL A for M2 motor input	
		23	HALL_B MOTOR 2	HALL B for M2 motor input	
71	(DCS CH1) IN	24	ZERO CROSS	Configuration input as zero pass.	M22, I20, I30, F30
		25	PROG	Programming pushbutton input PROG.	

72	(DCS CH2) IN		26	SESAME IN1	Sesame input 1	M22, I20, I30, F30
			27	SESAME IN2	Sesame input 2	
			28	SEC.OP	Magnetic opening safety contact input (connected to MTC).	
			29	RADIO START	Start pushbutton via radio input (NO).	
			30	STOP BY TEMPERATURE	Temperature stop input (thermal).	
			31	SEC.CL	Magnetic closing safety contact input (connected to MTC).	
			32	SEC.OP AUTOTEST	Opening safety contact with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be used.	
			33	SEC.CL AUTOTEST	Closing safety contact with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.	
			34	S.EDGE.CL AUTOTEST	Closing safety edge with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.	
			35	S.EDGE.OP AUTOTEST	Opening safety edge with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.	
			36	PARTIAL OPEN	Partial open opening	
			37	SAFETY CHAIN (5K)	STOP input with 5K ohms as valid number. Compatible with wire stay input and pedestrian door.	
			38	RBAND CLOSE DETECT	Configuration input as RBAND closing detection.	
			39	STOP N.O.	STOP input (NO)	
			40	OPTO EDGE.CL	Closing optical safety edge input.	
			41	OPTO EDGE.OP	Opening optical safety edge input.	
			42	PRESSURE SWITCH	Configuration input as pressure switch	
			43	AUTOEDGE.CL	Closing automatic 8K2/OPTO safety edge input.	
			44	AUTOEDGE.OP	Opening automatic 8K2/OPTO safety edge input.	
			45	COURTESY LIGHT ON	Courtesy light activation input.	
			46	OPEN SLOW SPEED REF	Configuration input as opening slow speed entering reference.	
			47	CLOSE SLOW SPEED REF	Configuration input as closing slow speed entering reference.	
			48	OPEN INSIDE	Configuration input as open from inside.	
			49	FIRE SIGNAL NO	Configuration input as fire signal (Normally Opened)	
			50	FIRE OPEN	Configuration input as force open signal	
			51	STEP BY STEP INPUT	Configuration input as opening/closing sequence by means of the same button	
			52	START RADIO SEC_DM	Configuration input as START radio that allows dead man mode if safety active	
			53	OPEN M1	Configuration input as OPEN motor 1	
			54	CLOSE M1	Configuration input as CLOSE motor 1	
			55	OPEN M2	Configuration input as OPEN motor 2	
			56	CLOSE M2	Configuration input as CLOSE motor 2	
			57	PRESSURE.SW_M2	Configuration input as pressure switch M2	
			58	FIRE SIGNAL NC	Configuration input as fire signal (Normally Closed)	
			59	TAMPER	Configuration input as tamper signal	
			60	AUTOCLOSE TIME REG	Configuration input as autoclose time configuration by means of potentiometer	
			61	SPEED REGULATION	Configuration input as speed regulation factor by means of potentiometer	
			62	KEY PARTIAL OP.	Configuration input as key input to enable partial opening maneuver	
			63	INTRUSION ALARM	Configuration input as intrusion alarm	

1.4 Output parameters

The output parameters allow configuring each available input of the control panel. Each output can have different values; they are indicated on the third column of the following table.

Num	Output	Available values - description	Models
78	OUT 1:OUT 6	0 ALWAYS OFF — The output has not got a defined function 1 COURTESY LIGHT LEVEL — Garage light level output (duration = maneuver time + programmed time) 2 COURTESY LIGHT PULSE — Garage light pulse output (duration = programmed time) 3 FLASH — Flash output 4 FLASH+COURTESY LIGHT — Flash+courtesy light by level output. 5 ELECTROLOCK — Electrolock output 6 ELECTROBRAKE — Electrobrake control output 7 AUTOTEST SIGNAL — Safety contact autotest output 8 OPENING SEQ. START — Active output right at the beginning of the opening operation 9 OPENING SEQUENCE — Active output during all the opening operation 10 CLOSING SEQ. START — Active output right at the beginning of the closing operation	M8, M22, I20, I30, F30, KEEROLL
79		11 CLOSING SEQUENCE — Active output during all the closing operation 12 ERROR SIGNAL — Active output when error detection	M8, M22, I20, I30, F30, KEEROLL
7A		13 PEDESTRIAN SEQUENCE — Active output during pedestrian mode 14 PANIC SIGNAL — Active output when panic signal detection	M8, M22, I20, I30, F30, KEEROLL
7B		15 GREEN LIGHT — Green traffic light control output 16 RED LIGHT — Red traffic light control output 17 INSIDE GREEN LIGHT — Green inside traffic light control output (traffic control mode)	M22, I20, F30, KEEROLL
7C		18 INSIDE RED LIGHT — Red inside traffic light control output (traffic control mode)	I20, I30, F30
90		19 OUTSIDE GREEN LIGHT — Green outside traffic light control output (traffic control mode) 20 OUSIDE RED LIGHT — Red outside traffic light control output (traffic control mode)	M8, M22, I20, I30, F30, KEEROLL
A1	(GV-Modul) OUT	21 INTRUSIVE SIGNAL — Intruder detection function output 22 S.EDGE ACTIVE — Active output when safety edge detection	M8, M22, I20, I30, F30, KEEROLL
A2		23 SEC.OP ACTIVE — Active output when opening safety contact detection	M8, M22, I20, I30, F30, KEEROLL
A3		24 SEC.CL ACTIVE — Active output when closing safety contact detection 25 FC.OP ACTIVE — Active output when opening limit switch detection 26 FC.CL ACTIVE — Active output when closing limit switch detection 27 ALARM — Active output when alarm signal detection	M8, M22, I20, I30, F30, KEEROLL
A4		28 MAX. NUM.SEQUENCES — Active output when the maximum number of maneuvers is exceeded	M8, M22, I20, I30, F30, KEEROLL
A5		29 ALWAYS ON — Output always active 30 MOTOR RUNNING — Active output at any door movement	M8, M22, I20, I30, F30, KEEROLL
A6		31 LOW BATTERY SIGNAL — Active output when low battery detection	M8, M22, I20, I30, F30, KEEROLL

A7		33	ELECTROMAGNET	Configuration output as electromagnet control.	M8, M22, I20, I30, F30, KEEROLL
		34	BOLLARD	Configuration output as bollard control signal.	
		35	BOLLARD LIGHT	Configuration output as a crown of light bollard.	
A8		36	BOLLARD RED LIGHT	Configuration output as red traffic light bollard mode.	M8, M22, I20, I30, F30, KEEROLL
		37	BOLLARD WARNINGLIGHT	Configuration output as warning traffic light bollard mode.	
A9		38	FLASH FIRE	Configuration output as flash fire	M8, M22, I20, I30, F30, KEEROLL
		39	FIRE SIGNAL OUTPUT	Configuration output as fire signal out	
AA		40	MAINTENANCE OUTPUT	Configuration output as maximum number of sequences for maintenance are reached	M8, M22, I20, I30, F30, KEEROLL
		41	RSENS DETECT	Output configurated as RSENS detection.	
AB		42	ELECTRO PULSED	Configuration output as electro pulsed	M8, M22, I20, I30, F30, KEEROLL
		43	DOOR OPENED	Configuration output as information of door opened	
AC		44	DOOR CLOSED	Configuration output as information of door closed	M8, M22, I20, I30, F30, KEEROLL
		45	ELECTROMAGNET CL	Configuration output as electromagnet control for CLOSED state	
AD		46	TAMPER	Configuration input as tamper signal	M8, M22, I20, I30, F30, KEEROLL
		47	LAMPARA I20	Configuration output as I20 lamp signal	
AE		48	SESAME OUT1	Sesame output 1	M8, M22, I20, I30, F30, KEEROLL
		49	SESAME OUT2	Sesame output 2	
AF					M8, M22, I20, I30, F30, KEEROLL
B0					M8, M22, I20, I30, F30, KEEROLL

1.5 Status parameters

The status parameters indicate the state of the maneuver, last errors or control panel versions. These parameters are only read parameters and they cannot be modified.

Num.	Parameters	Description	Models
7F	Control panel status	Shows the control panel state (open, lost, closed)	M8, M22, I20, I30, F30, KEEROLL
80	Control panel last error	Shows the value of the last error detected	M8, M22, I20, I30, F30, KEEROLL
81	Number of sequences	Shows the number of memorized maneuvers	M8, M22, I20, I30, F30, KEEROLL
96	Software version	Shows the software version of the control panel	M8, M22, I20, I30, F30, KEEROLL
97	EEPROM version	Shows the memory data version	M8, M22, I20, I30, F30, KEEROLL
98	Serial number	Shows the serial number of the control panel	M8, M22, I20, I30, F30, KEEROLL
99	Production ID	Shows the production number of the control panel	M8, M22, I20, I30, F30, KEEROLL
11	Customization ID	Shows the customization number of the control panel.	M8, M22, I20, I30, F30, KEEROLL
9A	Panel last Problem	Shows the last problem detected	M8, M22, I20, I30, F30, KEEROLL

9B	Panel last Warning	Shows the value of the last warning detected	M8, M22, I20, I30, F30, KEEROLL
9D	101-104 GV-Modul Status	Shows if the GV-Modul with the 101, 102, 103, 104 output is connected.	M8, M22, I20, I30, F30, KEEROLL
9E	111-114 GV-Modul Status	Shows if the GV-Modul with the 111, 112, 113, 114 outputs is connected.	M8, M22, I20, I30, F30, KEEROLL
9F	121-124 GV-Modul Status	Shows if the GV-Modul with the 121, 122, 123, 124 outputs is connected.	M8, M22, I20, I30, F30, KEEROLL
A0	131-134 GV-Modul Status	Shows if the GV-Modul with the 131, 132, 133, 134 outputs is connected.	M8, M22, I20, I30, F30, KEEROLL

LIGHT INDICATORS

Function	Indicates	Default value
ON	Power supply	Normally light on
STOP/ERROR	Operating warning or error	Normally light off
PROG	Programming mode	Normally light off
INXX	Input activated	Normally light off
OUTXX	Output activated	Normally light off

5.1 Indication of errors / warnings

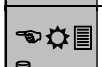
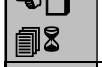
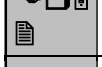
In front of with an error or warning (*), the control unit displays its value by means of an STOP / ERROR LED indicator. The indication is showed when an open, close or stop state is reached. Once the indication is showed, then it disappears.
To display the value of the error or warning by means of the STOP / ERROR LED indicator, a series of slow and fast flashing are performed. An slow flash = 1 second ON indicator + 0.5 seconds OFF indicator. A quick flash = 0.3 seconds ON + 0.5 seconds OFF.
The error or warning value can be up to 2 digits. To display the value, the control panel performs a slow number of flashes to indicate the first digit and a number of quick flashes to show the second digit. For example, the error 19 is displayed by one slow flash + 9 quick flashes.
(*) Warnings will be only displayed if the P24 parameter is active (ON).

DISPLAY MESSAGES

1.6 Serious errors

Errors associated with the safety of the installation or equipment malfunction. These errors must be resolved always.

·	Error	Description	Solution
	INT. ERROR	Internal error	Go to the technical service
	HA ERROR	Hall A error	Verify the hall A input connections
	PROG TIME MAX	Programming time maximum	Program a maneuver below the maximum allowed time
	S.EDGE.CL ERROR	Closing safety edge error	Verify the safety edge band connections when closing
	S.EDGE.OP ERROR	Opening safety edge error	Verify the safety edge band connections when opening
	TEMP ON	Motor temperature sensor activated	Verify the motor state and the temperature sensor connection
	TEST.CL ERROR	Closing auto test error	Verify that the safety device connected to the safety connection when closing is in good conditions and correctly installed
	TEST.OP ERROR	Opening auto test error	Verify that the safety device connected to the safety connection when opening is in good conditions and correctly installed
	RSENS NC WHEN PROG	Control panel programmed without RSENS connected	Connect the RSEC card and program the control panel again
	RSENS NOT FOUND	Control panel programmed with RSENS connected and now it is not connected	Program the control panel again without RSEC or connect the RSEC again that was programmed to the control panel previously
	RSENS PROG ERROR	RSENS programming error, are R and T paired?	Program the transmitter RSENS to the RSEC receiver card
	STOP	Control panel stopped by an STOP	Verify that the STOP input has been activated
	INTERNAL ERROR	Internal control panel error	Go to the technical service
	DOOR LOCKED RSENS	Closed door latch	Open the door's latch before the opening manoeuvre
	RBAND NOT FOUND	Control panel programmed with RBAND connected and now it is not connected	Program the control panel again without using RBAND or connect the RBAND that was connected to the control panel previously

	RBAND NC WHEN PROG	Control panel not programmed with RBAND connected	Connect the RBAND card and program the control panel again
	FC NOT LEARNT	End of course learning error	Verify the intern motor limit switches
	ERROR SYNC RSENS	Synchronization error between the receiver and the transmitter	Program the transmitter RSENS to the RSEC receiver card
	RSENS RADIO ERROR	Detection through opening current	Verify the batteries of the RSENS emitter id they are charged, verify the radio signal with the Check function
	CTROL PANEL BLOCKED	Control panel cannot enter programmation because it is blocked.	Enter the password with V-DPLAY or VERSUS-PROG for unlocking the control panel.
	ERROR ABSOLUT ENCODER	Absolut encoder not found or returning a mistake	Verify the connection of the absolute encoder
	FREQ.CONVERTER ERROR	The frequency converter has detected an error in its operation.	Verify what specific error the frequency converter reports.
	CUSTOM NOT INI	The customization was not recorded.	You must conduct the customization process for the control panel in production.
	INVERTER NO INI	The inverter was not initialised.	The inverter must be initialized in production.
	SAFETY CHAIN SC	Short-circuit error in the safety-chain input.	Check the input.
	PASS DOOR ERROR	Error in the pedestrian door switch in the safety chain input.	Check the input.
	SAFETY CHAIN OC	Open-circuit error in the safety-chain input.	Check the input.
	FC.OP NOT DETECTED	FC. OPEN programmed, but last opening operation not detected.	Check the input.
	FC.CL NOT DETECTED	FC. CLOSE programmed, but last closing operation not detected.	Check the input.
	DM OPEN ERROR	Dead man when opening activated when not expected.	Press DEAD MAN OPEN button twice.
	DM CLOSE ERROR	Dead man when closing activated when not expected.	Press DEAD MAN CLOSE button twice.
	ERROR PROG TYPE	Programmed by time while the panel is in encoder mode, or programmed by encoder while in time mode.	Re-programme the manoeuvre panel.
	POSITION EXCEEDED	The door stopped beyond the programmed limits (encoder mode).	Check that the encoder's communication is correct and that there are no interferences.
	ENCODER LOCKED	The panel did not receive movement from the encoder for more than 2 seconds.	Check that the door is not obstructed and that the encoder is installed correctly.

	OVERCURRENT	The panel did not reach the travelling limit due to overcurrent in the motor.	Check that the input voltage is correct and does not decrease when the door moves. The door may be too heavy for the motor. Check that the door is not obstructed.

1.7 Minor errors

Errors that do not inhibit the operation of the control panel but it is recommended to solve for a good operating.

·	**Error**	**Description**	**Solution**
	NOT PROGRAMMED	Control panel not programmed	Program the control panel again
	REF. NOT FOUND	No reference has been reached	Define a reference when programming the control panel (limit switch, mechanical stop, etc...)
	FCO	Control panel programmed with RSENS but without FCO	A limit switch should be installed to improve the installation with the RSENS system
	RSENS LOW BATTERY	RSENS low battery	Verify the batteries of the RSENS transmitter
	TAMPER	Input tamper input has been activated indicating manipulation of the control panel	Information failure only for technical service.

1.8 Warnings

Informative messages from the control panel.

·	**Error**	**Description**	**Solution**
	FC.CL M1 NOT FOUND	Closing end of course Motor 1 not found when expected	Verify the limit switch installation when motor 1 is closing
	FC.CL M2 NOT FOUND	Closing end of course Motor 2 not found when expected	Verify the limit switch installation when motor 2 is closing
	FC.OP M1 NOT FOUND	Opening end of course Motor 1 not found when expected	Verify the limit switch installation when motor 1 is opening
	FC.OP M2 NOT FOUND	Opening end of course Motor 2 not found when expected	Verify the limit switch installation when motor 2 is opening
	S.EDGE.CL ON	Closing safety edge activated	Verify that the safety edge activation was produces by an obstacle
	S.EDGE.OP ON	Opening safety edge activated	Verify that the safety edge activation was produces by an obstacle
	C.SEC.CL ON	Closing safety contact activated	Verify that the safety edge activation was produces by an obstacle

	C.SEC.OP ON	Opening safety contact activated	Verify that the safety edge activation was produces by an obstacle
	MAG.DETEC ON	Magnetic closing safety activated	Verify that the safety edge activation was produces by an obstacle
	RSENS ON	RSENS safety activated	Verify that the safety edge activation was produces by an obstacle
	C.SEC.M ON	Magnetic safety contact activated	Verify that the safety edge activation was produces by an obstacle
	ERROR RADIO DESCRYPT	Receiving not programmed transmitters from another customer or installer	Verify that in the installation there are no emitters of another client/ installer activated with our control panel
	ERROR RADIO RTDS	The radio signal received is very low	Verify the installation and the radio signal
	S.OPTOEDGE.CL ON	Closing optical safety edge activated	Verify that the safety edge activation was produces by an obstacle
	S.OPTOEDGE.OP ON	Opening optical safety edge activated	Verify that the safety edge activation was produces by an obstacle
	PRESSURE SW ON	Pressure switch activation (hydraulic motor).	Verify that the pressure switch activation was produced by an obstacle.

DoorTec Deutschland
48683 Ahaus
Neustraße 9