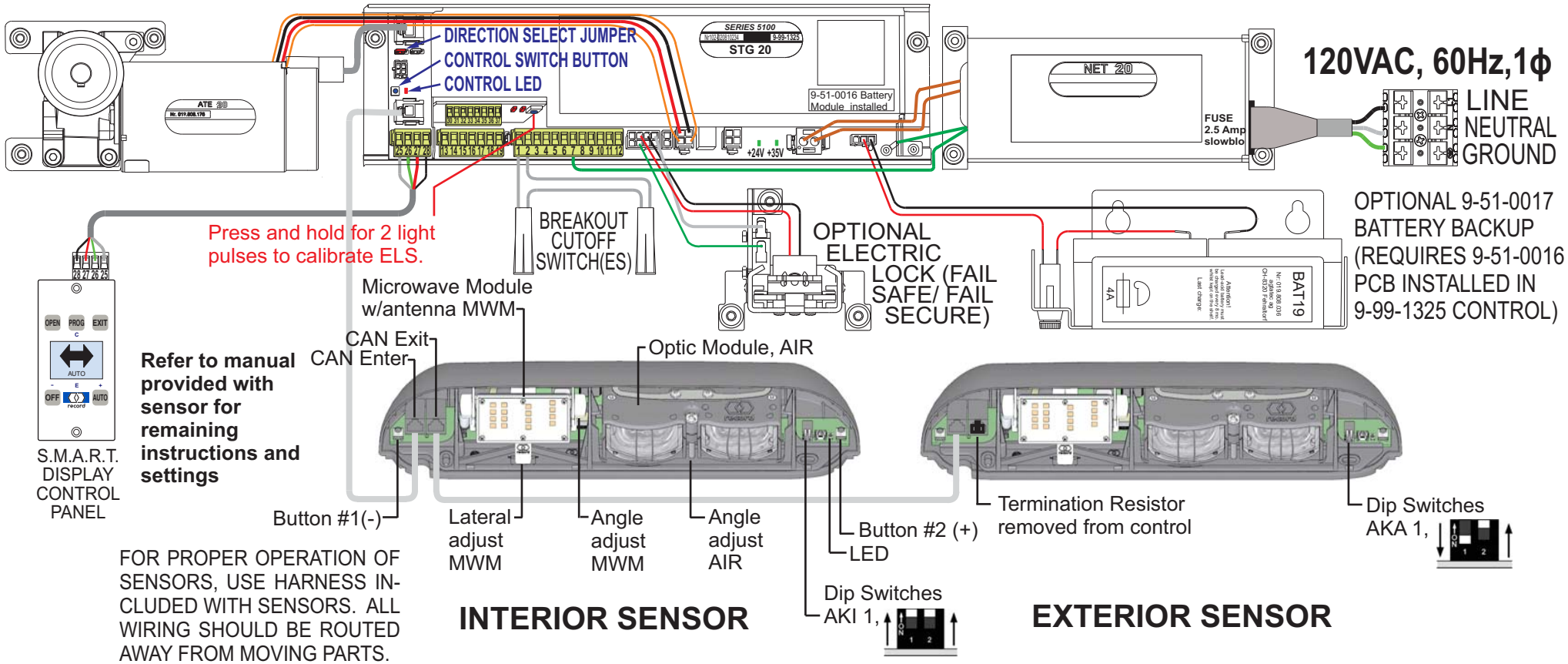
THE FOLLOWING PARAMETERS MUST BE ENABLED WHEN AN ELECTRIC LOCK IS PRESENT:
CONFIGURE SYSTEM / LOCK TYPE / SELECT: FAIL SECURE or FAIL SAFE (BASED ON LOCK TO BE INSTALLED)
PARAM STG / LOCKING / LOCK FUNCTION / SELECT: NIGHT LOCKED, 1-WAY LOCKED, or ALWAYS LOCKED (BASED ON DESIRED FUNCTION)

WHEN THE BATTERY BACKUP IS PRESENT, AN ADDITIONAL BATTERY MONITOR BOARD (P/N 9-51-0016) IS INSTALLED IN THE DOOR CONTROLLER.
THE FOLLOWING PARAMETER MUST BE CHANGED:
CONFIGURE SYSTEM / BATTERY / SELECT: LEAD

TO INTERLOCK, CONNECT TERMINALS 4 & 5 OF DOOR "A" TO 8 & 9 OF DOOR "B", AND 8 & 9 OF DOOR "A" TO 4 & 5 OF DOOR "B"; SET THE FOLLOWING PARAMETERS:
INPUT/OUTPUT / STG / AUX0_IN: 2 - SOK/NSK
INPUT/OUTPUT / STG / AUX4_IN: 16 - SURA
INPUT/OUTPUT / STG / AUX0_OUT: 7 - CLOSE
INPUT/OUTPUT / EMERG. OPEN/CLOSE / FUNCTION: 4 - EMERG. CLOSE, LOCKED & REMSW

1 EMERGENCY STOP
2 EMERGENCY STOP(+24V)
3 +24V
4 AUX00-IN
5 +24V
6 AUX01-IN
7 0V
8 AUX0 OUT - NO
9 AUX0 OUT - COM
10 AUX0 OUT - NC
11 SPECIAL ACTIVATION
12 SPECIAL ACTIVATION
13 +24V (SENSOR POWER)
14 INTERIOR SENSOR
15 0V (SENSOR POWER)
16 EXTERIOR SENSOR
17 +24V (SENSOR POWER)
18 AUX04-IN
19 +24V
25 CANBUS - DATA H
26 CANBUS - DATA L
27 +24V
28 0V
30 SAFETYBEAM - XMTR1 +(WHT)
31 SAFETYBEAM - XMTR1 - (BLK)
32 SAFETYBEAM - RCVR1 +(ORG)
33 SAFETYBEAM - RCVR1 - (BLK)
34 SAFETYBEAM - XMTR2 +(WHT)
35 SAFETYBEAM - XMTR2 - (BLK)
36 SAFETYBEAM - RCVR2 +(ORG)
37 SAFETYBEAM - RCVR2 - (BLK)

NOTE: THIS PRODUCT IS INTENDED FOR PERMANENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM.



FOR PROPER OPERATION OF SENSORS, USE HARNESS INCLUDED WITH SENSORS. ALL WIRING SHOULD BE ROUTED AWAY FROM MOVING PARTS.

WIRING DIAGRAM Series 5100 System 20 with RIC290 CANBus Sensors

April 2016 BG

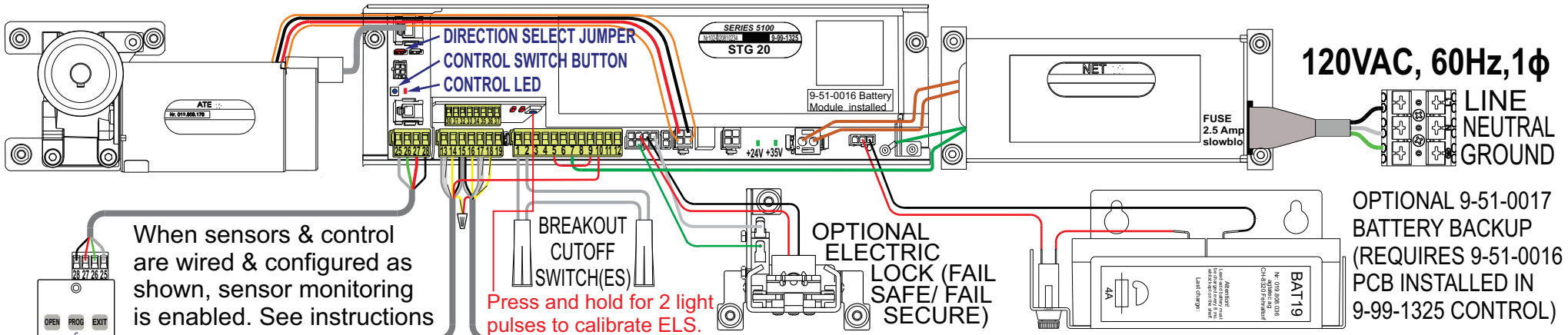
THE FOLLOWING PARAMETERS MUST BE ENABLED WHEN AN ELECTRIC LOCK IS PRESENT:
CONFIGURE SYSTEM / LOCK TYPE / SELECT: FAIL SECURE or FAIL SAFE (BASED ON LOCK TO BE INSTALLED)
PARAM STG / LOCKING / LOCK FUNCTION / SELECT: NIGHT LOCKED, 1-WAY LOCKED, or ALWAYS LOCKED (BASED ON DESIRED FUNCTION)

WHEN THE BATTERY BACKUP IS PRESENT, AN ADDITIONAL BATTERY MONITOR BOARD (P/N 9-51-0016) IS INSTALLED IN THE DOOR CONTROLLER.
THE FOLLOWING PARAMETER MUST BE CHANGED:
CONFIGURE SYSTEM / BATTERY / SELECT: LEAD

CONSULT THE PRODUCT INSTALLATION INSTRUCTIONS FOR PROPER DOOR ADJUSTMENTS.

1 EMERGENCY STOP
2 EMERGENCY STOP(+24V)
3 +24V
4 AUX00-IN
5 +24V
6 AUX01-IN
7 0V
8 AUX0 OUT - NO
9 AUX0 OUT - COM
10 AUX0 OUT - NC
11 SPECIAL ACTIVATION
12 SPECIAL ACTIVATION
13 +24V (SENSOR POWER)
14 INTERIOR SENSOR
15 0V (SENSOR POWER)
16 EXTERIOR SENSOR
17 +24V (SENSOR POWER)
18 AUX04-IN
19 +24V
25 CANBUS - DATA H
26 CANBUS - DATA L
27 +24V
28 0V
30 SAFETYBEAM - XMTR1 +(WHT)
31 SAFETYBEAM - XMTR1 - (BLK)
32 SAFETYBEAM - RCVR1 +(ORG)
33 SAFETYBEAM - RCVR1 - (BLK)
34 SAFETYBEAM - XMTR2 +(WHT)
35 SAFETYBEAM - XMTR2 - (BLK)
36 SAFETYBEAM - RCVR2 +(ORG)
37 SAFETYBEAM - RCVR2 - (BLK)

NOTE: THIS PRODUCT IS INTENDED FOR PERMANENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM.



13-+24V: GREY, WHITE & WHITE w/STRIPE
14-INT. SENSOR: YELLOW
15-COMMON: GREY & BLACK
10-AUX0_OUT (TEST SENSORS): RED
CONNECT YELLOW w/Stripe TO RED OF EXT. SENSOR

SET DIPSW. SAFETY OUT-"NC" (XZoneT#12; iOneXT#15)
SET DIPSW. SAFETY IN-"LOW" (XZoneT#13; iOneXT#16)
SET DIPSW. Simult.OUT-"OFF" (XZoneT#14; iOneXT#14)
SET DIPSW. BLUE ZONE-"ON" (XZoneT#15; iOneXT#5)

INTERIOR SENSOR

18-AUX4_IN (SIS): YELLOW w/STRIPE
17-+24V: GREY, WHITE, & WHITE w/STRIPE
16-EXT. SENSOR: YELLOW
15-COMMON: GREY & BLACK
CONNECT RED TO YELLOW w/STRIPE OF INT. SENSOR

SET DIPSW. SAFETY OUT-"NC" (XZoneT#12; iOneXT#15)
SET DIPSW. SAFETY IN-"LOW" (XZoneT#13; iOneXT#16)
SET DIPSW. Simult.OUT-"OFF" (XZoneT#14; iOneXT#14)
SET DIPSW. BLUE ZONE-"ON" (XZoneT#15; iOneXT#5)

EXTERIOR SENSOR

FOR PROPER OPERATION OF SENSORS, USE HARNESS INCLUDED WITH SENSORS. ALL WIRING SHOULD BE ROUTED AWAY FROM MOVING PARTS.

JUMPER = #5 TO #9 on Control
Set Parameter AUX04 IN = SIS
Set Parameter AUX0 OUT = TEST SENSORS

record

WIRING DIAGRAM SERIES 5100 System 20 w/Optex XZone & iOneXT Sensors

Sep2016 BG

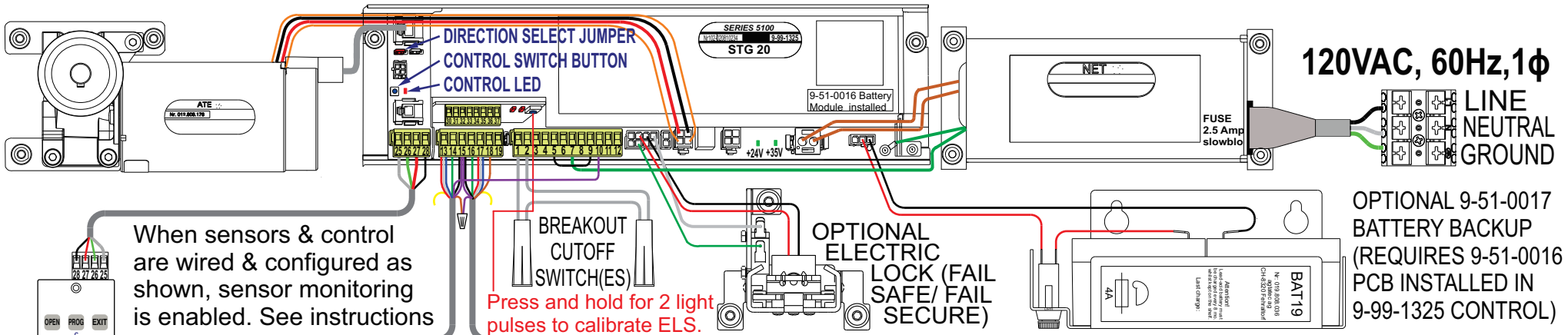
THE FOLLOWING PARAMETERS MUST BE ENABLED WHEN AN ELECTRIC LOCK IS PRESENT:
CONFIGURE SYSTEM / LOCK TYPE / SELECT: FAIL SECURE or FAIL SAFE (BASED ON LOCK TO BE INSTALLED)
PARAM STG / LOCKING / LOCK FUNCTION / SELECT: NIGHT LOCKED, 1-WAY LOCKED, or ALWAYS LOCKED (BASED ON DESIRED FUNCTION)

WHEN THE BATTERY BACKUP IS PRESENT, AN ADDITIONAL BATTERY MONITOR BOARD (P/N 9-51-0016) IS INSTALLED IN THE DOOR CONTROLLER.
THE FOLLOWING PARAMETER MUST BE CHANGED:
CONFIGURE SYSTEM / BATTERY / SELECT: LEAD

CONSULT THE PRODUCT INSTALLATION INSTRUCTIONS FOR PROPER DOOR ADJUSTMENTS.

1 EMERGENCY STOP
2 EMERGENCY STOP(+24V)
3 +24V
4 AUX00-IN
5 +24V
6 AUX01-IN
7 0V
8 AUX0 OUT - NO
9 AUX0 OUT - COM
10 AUX0 OUT - NC
11 SPECIAL ACTIVATION
12 SPECIAL ACTIVATION
13 +24V (SENSOR POWER)
14 INTERIOR SENSOR
15 0V (SENSOR POWER)
16 EXTERIOR SENSOR
17 +24V (SENSOR POWER)
18 AUX04-IN
19 +24V
25 CANBUS - DATA H
26 CANBUS - DATA L
27 +24V
28 0V
30 SAFETYBEAM - XMTR1 +(WHT)
31 SAFETYBEAM - XMTR1 - (BLK)
32 SAFETYBEAM - RCVR1 +(ORG)
33 SAFETYBEAM - RCVR1 - (BLK)
34 SAFETYBEAM - XMTR2 +(WHT)
35 SAFETYBEAM - XMTR2 - (BLK)
36 SAFETYBEAM - RCVR2 +(ORG)
37 SAFETYBEAM - RCVR2 - (BLK)

NOTE: THIS PRODUCT IS INTENDED FOR PERMANENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM.



13-+24V: RED, WHITE & BLUE
14-INT. SENSOR: GREEN
15-0V: BLACK & VIOLET
10-AUX0_OUT (TEST SENSORS): VIOLET
CONNECT BROWN TO VIOLET OF EXT. SENSOR
YELLOW RELAY OUT: NO CONNECTION @ DOOR CONTROL

SET SENSOR PARAMETERS: AIR OUTPUT-ENERG/NC; RAD REDIRECT-MTF>1; RAD OUTPUT-DEENERG/NO; TEST-ON; REDIRECTION-0 (F1=0)

INTERIOR SENSOR

18-AUX4_IN (SIS): BROWN
17-+24V: RED, WHITE, & BLUE
16-EXT. SENSOR: GREEN
15-0V: BLACK & VIOLET
CONNECT VIOLET TO BROWN OF INT. SENSOR
YELLOW RELAY OUT: NO CONNECTION @ DOOR CONTROL

SET SENSOR PARAMETERS: AIR OUTPUT-ENERG/NC; RAD REDIRECT-MTF>1; RAD OUTPUT-DEENERG/NO; TEST-ON; REDIRECTION-0 (F1=0)

EXTERIOR SENSOR

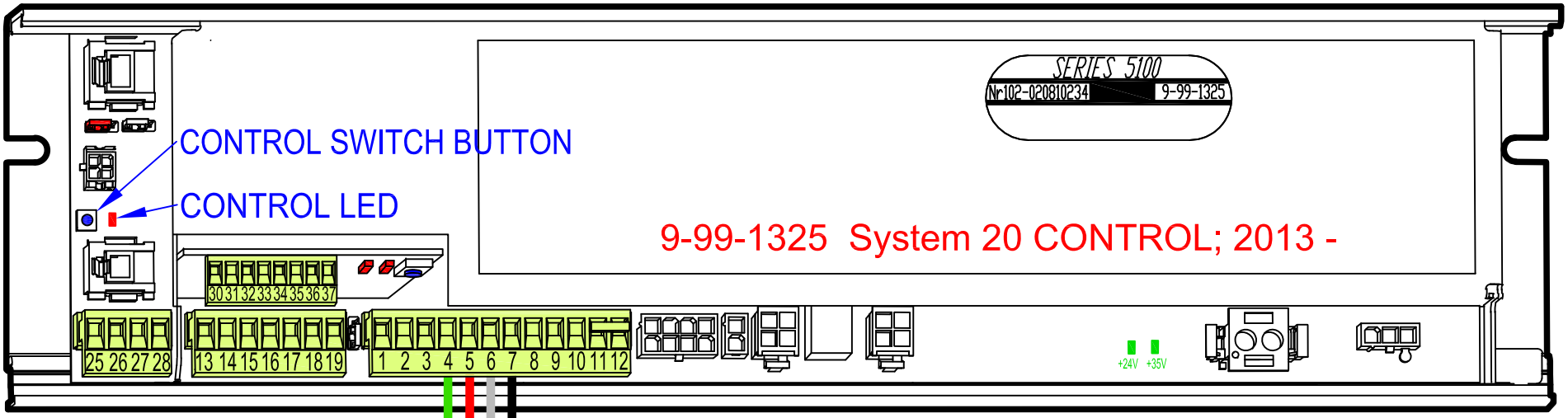
FOR PROPER OPERATION OF SENSORS, USE HARNESS INCLUDED WITH SENSORS. ALL WIRING SHOULD BE ROUTED AWAY FROM MOVING PARTS.

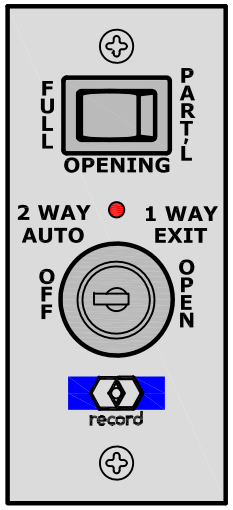
JUMPER = #5 TO #9 on Control
Set Parameter AUX04 IN = SIS
Set Parameter AUX0 OUT = TEST SENSORS

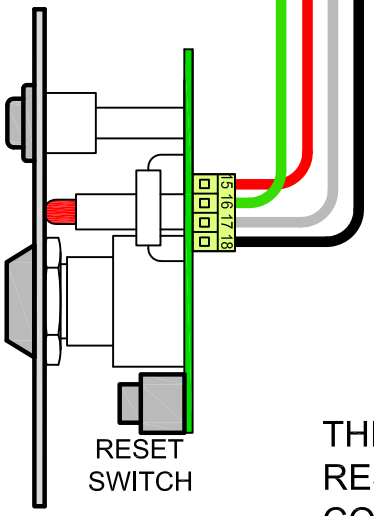
record

WIRING DIAGRAM SERIES 5100 System 20 w/BEA IXIO DT1 Sensors

Sep2016 BG







TO CONNECT EITHER THE 4-51-0105 DUAL ROCKER SWITCH OR THE 4-51-0106 ROCKER / KEY SWITCH CONTROL PANEL TO THE 9-99-1325 SYSTEM 20 DOOR CONTROL ASSEMBLY, CONNECT THE TERMINAL AS SHOWN:

ROCKER CONTROL PANEL	DOOR CONTROL
15	5
16	4
17	6
18	7

THE 9-99-1325 DOOR CONTROL ASSEMBLY MUST BE CONFIGURED TO RESPOND TO THE CONTROL PANEL. USING EITHER THE DISPLAY CONTROL PANEL OR THE FPC-902 FLASH PROGRAMMER, CHANGE THE FOLLOWING THREE PARAMETERS AS INDICATED:

PARAMETER: *CONTROL PANEL / MECHANICAL PANEL* - CHANGE FROM "DISABLED" TO "ROCKER & KEYSW"
PARAMETER: *INPUT/OUTPUT / STG / AUX00_IN* - CHANGE FROM "DISABLED" TO "BDEM_2"
PARAMETER: *INPUT/OUTPUT / STG / AUX01_IN* - CHANGE FROM "DISABLED" TO "BDEM_1"

NOTE: WHEN USING BOTH A ROCKER SWITCH PANEL AND A DISPLAY CONTROL PANEL, THE ROCKER SWITH PANEL WILL HAVE PRIORITY OVER THE DISPLAY PANEL IN ALL MODES EXCEPT "OFF".
TO RESET THE DOOR WITH A ROCKER SWITCH PANEL, INSERT A PAPERCLIP IN THE SMALL HOLE IN THE CENTER OF THE LOGO, PRESS UNTIL A CLICK IS FELT AND HOLD FOR 15 SECONDS, THEN RELEASE.

record-USA
4324 Phil Hargett Ct.
Monroe, NC 28110
(704) 289 - 9212

INSTALLING A 4-51-0105 / 4-51-0106 ROCKER SWITCH CONTROL PANEL WITH A 9-99-1325 SYSTEM 20 DOOR CONTROL

FEB2013

SYSTEM 20

RECORD SERIES 5100 PARAMETER SETTINGS **ORDER No:** _____ **Dec** 2013

MENU / PARAMETER	RANGE	DEFAULT	PLANT	MENU / PARAMETER	RANGE	DEFAULT	PLANT
DRIVING CYCLE				**Interlock(with FEM-1)**			
Closing speed	0 … 40	20		Disabled		X	
Opening speed	0 … 40	36		All operating modes			
Open				One-way & Locked			
Acceleration	0 … 40	30		**Door type**			
Deceleration	0 … 40	30		Basic operator		X	
Creep section	0 … 40	0		CO48 Ventouse			
Close				TOS			
Acceleration	0 … 40	30		FlipFlow			
Deceleration	0 … 40	30		CO48 Sandow Direct			
Creep section	0 … 40	0		Basic escape route			
Holding force	0 … 40	24		Folding Door, Austria			
Ramp				Breakout USA			X
Section	0 … 40	0		Ratchet			
Force	0 … 40	20		Dead man			
Seal	0 … 40	0		OP door 1			
TIME DELAY OPEN				OP door 2			
Time delay open	0 … 40	0	2	Folding door USA			
Time delay - Remote Sw.	0 … 40	4		Smoke-protection			
SSK delay	0 … 40	0		3 button			
Reset with button				Default			
Disabled		X		Folding door, basic			
Enabled				Industry 1			
DRIVE				**CONTROL PANEL**			
Partial Opening	0 … 40	26		**Mechanical Panel**			
Close Obstruction	0 … 40	20		Disabled		X	
Open Obstruction	0 … 40	20		3 Pos. (AUTO)			
Brake				One-way (EXIT)			
Without		X		Rocker & KeySw			
Closed position				Partial Opening			
Open position				**Display Panel**			
Closed / 1-Way / Locked				Language		DEUTSCH	ENG.US
Closed, Locked				Keyboard (Off or Locked)		Locked	OFF
Motor				Contrast BDE 1	0 … 40	20	
Without		X		Contrast BDE 2	0 … 40	20	
ATE 20			X	Brightness BDE1	0 … 40	20	
ATE 21				Brightness BDE2	0 … 40	20	
ATE 19 small				Light time delay	0 … 40	10	
ATE 19 large				**Default operating mode**			
ATE 16 normal				Off			
ATE 16 heavy				Locked		X	
ATE 17				Automatic			X
ATE 20 Folding door				Continuous open			
ATE 16 Folding door				**LOCKING**			
ATE 16 30V				**Locking function**			
ATE 20 / 200				Night locked		X	
Two motors				1-Way locked			
Disabled		X		Always locked			
Enabled				**Locking type**			
Emergency operating BAT				Without		X	
Close, do not lock				Motor-powered			
Unlock and open				Bi-stable			
Close and lock				MPV 20			
Open if not locked		X		MPV 16			
Power failure				Magnet			
Battery operation				Fail secure			
Emergency operation		X		Fail safe			
Battery				Double			
Without battery		X		**Start delay**	0 … 40	0	
Lead-acid battery				**Closed VRR error**		Disabled	
ENTRANCE SYSTEM				**Push force**	0 … 40	0	
A-dimension		2000		**CAN BUS**			
G-dimension		0		FEM-0		0	
Door leaf				FEM-1		0	
DST		X		AKI 1		0	
EST-L/R				SI 1		0	
				AKA 1		0	

MENU / PARAMETER	RANGE	DEFAULT	PLANT		MENU / PARAMETER	RANGE	DEFAULT	PLANT
CAN BUS (continued)					AUX04_IN (continued)			
SA 1		0			SURA			
SL		0			AKA Button			
SR		0			AKA Button Reduced			
AKI 2		0			VRR manual lock			
SI 2		0			Reset SÖK_NSK			
AKA 2		0			SIA			
SA 2		0			AUX0_OUT			
INPUT/OUTPUT					Disabled		X	
STG					Test Sensors			
AUX00_IN					Alarm output			
Disabled		X			Gong			
SÖK or NSK					Locked			
SURV					Closed			
BDE-M_2					Warning			
Continuously Open					Open			
SIS					AKI			
SIO					AKA			
AKI Button reduced					ZLP			
Broken rubber cord					ZLP1			
Opening Deadman					Without		X	
Closing Deadman					ELS			X
AKI Button					**FEM 0**			
Closing Button					**FEM 1**			
Ratchet					**Ext. Sw IN**			
Emergency Opening					Ext. Sw IN		X	
SURA					Inactive by 1-way & locked			
AKA Button					Disabled			
AKA Button Reduced					**Emergency Open / Close**			
VRR manual lock					Function			
Reset SÖK_NSK					Disabled			
SIA					Emergency open			
AUX01_IN					Emerg.Close; Rem.Sw			
Disabled		X			Emerg.Close & Lock		X	
SÖK or NSK					Emerg.Close,Lock & Rem			
SURV					Emerg.Close; Man'l Ovride			
BDE-M_1					Speed (Flip-Flow only)	0 … 40		
Continuously Open					**Emergency Stop Reset**			
SIS					**SIO**			
SIO					Function SIO			
AKI Button reduced					Stop		X	
Broken rubber cord					Creep			
Opening Deadman					Activate SIO	0 … 40	0	
Closing Deadman					Suppression SIO	0 … 40	40	
AKI Button					**SIS**			
Closing Button					Stop			
Ratchet					Reverse Direction		X	
Emergency Opening					Creep			
SURA					**SIA**			
AKA Button					Stop		X	
AKA Button Reduced					Creep (Slow Open)			
VRR manual lock					**MISCELLANEOUS**			
Reset SÖK_NSK					TOWA - Disabled or Enabled		Disabled	
SIA					Push to actuate Open			
AUX04_IN					Disabled		X	
Disabled		X			Normal			
SURV					Reduced			
Continuously Open					Push to actuate Close			
SIS					Disabled or Enabled		Disabled	
SIO					Push Holding force	0 … 40	0	
AKI Button reduced					Lead Time Open	0 … 40	1	
Broken rubber cord					Lead Time Close	0 … 40	1	
Opening Deadman					Alarm display			
Closing Deadman					Time release	0 … 40	18	
AKI Button					Time safety	0 … 40	18	
Closing Button					Obstruction Indication			
Ratchet					Disabled		X	
Emergency Opening					Enabled			

CONTROL TERMINAL CONNECTIONS

1 EMERGENCY STOP	13 +24V POWER OUT	30 SAFETY BEAM - XMTR1+
2 EMERGENCY STOP (+24V)	14 INTERIOR SENSOR	31 SAFETY BEAM - XMTR1-
3 +24V POWER OUT	15 0V POWER OUT	32 SAFETY BEAM - RCVR1+
4 AUX00_IN	16 EXTERIOR SENSOR	33 SAFETY BEAM - RCVR1-
5 +24V POWER OUT	17 +24V POWER OUT	34 SAFETY BEAM - XMTR2+
6 AUX01_IN	18 AUX04_IN	35 SAFETY BEAM - XMTR2-
7 0V POWER OUT	19 +24V	36 SAFETY BEAM - RCVR2+
8 AUX0_OUT - NO		37 SAFETY BEAM - RCVR2-
9 AUX0_OUT - COM	25 CANBUS - DATAH	
10 AUX0_OUT - NC	26 CANBUS - DATAL	
11 SPECIAL ACTIVATION (+24V)	27 +24V	
12 SPECIAL ACTIVATION	28 0V	

BEA EAGLE or SIMILAR SENSOR

54321

EXTERIOR SENSOR

1-J2#17
2-J2#15
3-J2#17
4-J2#16

BE SURE TO MOUNT ACTIVATION SENSOR ON FOLD SIDE OF UNIT ON 2 SPACERS

1-J2#13
2-J2#15
3-J2#13
4-J2#14

BEA EAGLE or SIMILAR SENSOR

54321

INTERIOR SENSOR

NOTE: FOR PROPER OPERATION, USE HARNESS PROVIDED WITH SENSORS TO BE INSTALLED. ALL WIRING SHOULD BE ROUTED AWAY FROM MOVING PARTS. POWER AVAILABLE FOR SENSORS: 24V, 1A.

BEA
FOLD SIDE
BODYGUARD
Monitor Dipswitch Set to ON
SAFETY SENSOR

SET IMMUNITY TO 3 HIGH

FEM0
Nr. 020.808.442
agtatec ag
CH-8320 Fehraltorf

STG SETTING:
FEM0> AUX2 OUT
18 - OPEN

NOTE: WITH NO RAIL BEAMS JUMPER 41 & 42 AND 45 & 46 ON FEM0 MODULE

BLUE>54

NOTE: FOR PROPER SAFETY SENSOR FUNCTION, PARAMETER "AUX04_IN" SHOULD BE SET TO "(35) SIA". FOR BODYGUARD MONITOR OPERATION, PARAMETER "AUX0_OUT" SHOULD BE SET TO "TEST SENSORS". IF PRESENT, REMOVE JUMPER BETWEEN TERM. 18 & 19.

THIS PRODUCT IS INTENDED FOR PERMANENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM

BAT19
Nr.019.808.036
4A

OPTIONAL MONITORED STANDBY BATTERY
(REQUIRES INSTALLATION OF 9-51-0016 PCB IN CONTROL)

24VDC
35VAC

MOTOR 1

BROWN>15
BLACK>15
RED>17
WHITE>17
PUR/YEL>10
PURPLE>7
YEL>18

STANDARD DISPLAY CONTROL PANEL

BREAKOUT C/O MAGNETIC SW.

OPEN PROG EXIT
AUTO
OFF record AUTO

GND
NEUT
LINE

120VAC INPUT

2.5A
NET 20 / 115V

OPERATOR POWER SUPPLY

J3 J2 J1

INSTALL JUMPER TO 5 & 9

9-51-0016

STG

SLAVE/ MASTER

CONTROL SWITCH

MOTOR DRIVE with ENCODER ATE 20

DIRECTION SELECT (INFOLD SHOWN) ENCODER

OPTIONAL BREAKOUT LOCK
GRN & BRN-SOLENOID
YEL & WHT-MON. SW.

2X VRR 20

Nr. 102-020810178

VRR 1 VRR 2

VRR FTA 108
Nr.108.080.000

NOTE: FOR UNITS WITH BOTH FOLD & BREAKOUT ELECTRIC LOCKS, THE PARAMETER "LOCKING/ LOCK TYPE" SHOULD BE SET TO "DOUBLE". DIPSWITCHES; BANK 1, #1 ON, #2,3,4 OFF FOR "BISTABLE". BANK 2, # 1 ON, #2 OFF, #3 ON, #4 OFF FOR "FAIL SAFE"

DOOR CORDS

OPTIONAL PANEL LOCKS
RED-SOLENOID
WHT-SOLENOID
GRN-Monitor (1 Lock)
BLK -Monitor (1 Lock)

record

SERIES 4500 WIRING DIAGRAM with Sys20 CONTROL
BEA BODYGUARD T, FEM0 MODULE & PANEL LOCKS

Jan2020 BG

CONTROL TERMINAL CONNECTIONS

1 EMERGENCY STOP	13 +24V POWER OUT	30 SAFETY BEAM - XMTR1+
2 EMERGENCY STOP (+24V)	14 INTERIOR SENSOR	31 SAFETY BEAM - XMTR1-
3 +24V POWER OUT	15 0V POWER OUT	32 SAFETY BEAM - RCVR1+
4 AUX00_IN	16 EXTERIOR SENSOR	33 SAFETY BEAM - RCVR1-
5 +24V POWER OUT	17 +24V POWER OUT	34 SAFETY BEAM - XMTR2+
6 AUX01_IN	18 AUX04_IN	35 SAFETY BEAM - XMTR2-
7 0V POWER OUT	19 +24V	36 SAFETY BEAM - RCVR2+
8 AUX0_OUT - NO		37 SAFETY BEAM - RCVR2-
9 AUX0_OUT - COM	25 CANBUS - DATAH	
10 AUX0_OUT - NC	26 CANBUS - DATAL	
11 SPECIAL ACTIVATION (+24V)	27 +24V	
12 SPECIAL ACTIVATION	28 0V	

1-J2#15
2-J2#17
3-J2#17
4-J2#16

9-61-0028
Motion Sensor
Optex Reaction II

EXTERIOR
ACTIVATION SENSOR

2- J2#13
3- J2#13
4- J2#14
1- J2#15

9-61-0028
Motion Sensor
Optex Reaction II

INTERIOR
ACTIVATION SENSOR

MOUNT FOLD SIDE ON 2 SPACERS

YEL-J2#13
YEL-J2#14
BRN-J2#15
ORG-J2#19
BLU-J2#17
BLU-J2#18
BLACK-J3#7
RED-J3#9

DIP#1-ON
DIP#2-ON
DIP#3-ON

MODE SW:
DIP#1-ON
DIP#6-ON
DIP#7-ON

9-61-0037
Presence Sensor
Optex Pro-Swing Premier OA613T

FOLD SIDE SAFETY SENSOR

NOTE: FOR PROPER SAFETY SENSOR FUNCTION, SET PARAMETER "AUX4_IN" TO "35-SIA", AND "AUX0_OUT" TO "OPEN" REMOVE JUMPER TERM. 18 & 19

NOTE: FEMO MODULE NEEDS JUMPERS PLACED BETWEEN 41 & 42, AND 45 & 46.

FEM0
Nr. 020.808.442
agtatec ag
CH-8320 Fehraltorf

STG>FEM0 SET INPUT/OUTPUT FEM0 AUX2 OUT>
TEST SENSORS GREY/VIOLET>
FEM0- #54
RED/BLUE>
FEM0- #55

ADJUST LOC-OUT TIMER ACCORDINGLY

9-99-1321
STANDARD DISPLAY CONTROL PANEL

Remove jumper to disable keypad

BREAKOUT C/O MAGNETIC SW.

THIS PRODUCT IS INTENDED FOR PERMANENT CONNECTION TO THE ELECTRICAL SUPPLY SYSTEM

BAT19
Nr:019.808.036
4A

OPTIONAL MONITORED STANDBY BATTERY
(REQUIRES INSTALLATION OF 9-51-0016 PCB IN CONTROL)

24VDC
35VAC
CAN Termination Plug
MOTOR

GND
NEUT
LINE

120VAC INPUT

2.5A
NET 19 / 115V

OPERATOR POWER SUPPLY

9-99-1325
CONTROL

CONTROL SWITCH

MOTOR DRIVE with ENCODER

SLAVE / MASTER

DIRECTION SELECT (OUTFOLD SHOWN)
ENCODER

LOCK SEQUENCER 2X VRR 20
Nr. 102-020810178 9-45-0109

DOOR CORDS

OPTIONAL PANEL LOCKS
RED-SOLENOID
WHT-SOLENOID
GRN-Monitor Switch
BLK -Monitor Switch

NOTE: DIP SWITCH SETTINGS:
S1-ON,OFF,OFF,OFF; S2-OFF,OFF,ON,OFF
FOR UNITS WITH BOTH PANEL AND BREAKOUT ELECTRIC LOCKS, THE PARAMETER "LOCKING / LOCK TYPE" SHOULD BE SET TO "DOUBLE".

Mar2018 BG

NOTE: SAFETY BEAMS CAN BE DISABLED WITH JUMPERS BETWEEN 31 & 32, AND 35 & 36.

XMTR B
RCVR A
RCVR B
XMTR A

THRESHOLD SAFETY BEAMS

OPTIONAL BREAKOUT LOCK
GRN & BRN-SOLENOID
YEL & WHT-MON. SW.

VRR FTA 108
Nr.108.080.000

SERIES 4500 Sys20 WIRING DIAGRAM with Optex SENSOR PACKAGE I with MONITORING InPanel Locks w/Monitor Switch

record

SYSTEM 20

RECORD SERIES 4500/4600 PARAMETER SETTINGS **ORDER No:** _____. Aug 2013

MENU / PARAMETER	RANGE	DEFAULT	PLANT	MENU / PARAMETER	RANGE	DEFAULT	PLANT
DRIVING CYCLE				**Interlock(with FEM-1)**			
Closing speed	0 … 40	20		Disabled		X	
Opening speed	0 … 40	36		All operating modes			
Open				One-way & Locked			
Acceleration	0 … 40	30		**Door type**			
Deceleration	0 … 40	30		Basic operator		X	
Creep section	0 … 40	0		CO48 Ventouse			
Close				TOS			
Acceleration	0 … 40	30		FlipFlow			
Deceleration	0 … 40	30		CO48 Sandow Direct			
Creep section	0 … 40	0		Basic escape route			
Holding force	0 … 40	24		Folding Door, Austria			
Ramp				Breakout USA			
Section	0 … 40	0		Ratchet			
Force	0 … 40	20		Dead man			
Seal	0 … 40	0		OP door 1			
TIME DELAY OPEN				OP door 2			
Time delay open	0 … 40	0	3	Folding door USA			X
Time delay - Remote Sw.	0 … 40	4		Smoke-protection			
SSK delay	0 … 40	0		3 button			
Reset with button				Default			
Disabled		X		Folding door, basic			
Enabled				Industry 1			
DRIVE				**CONTROL PANEL**			
Partial Opening	0 … 40	26		**Mechanical Panel**			
Close Obstruction	0 … 40	20		Disabled		X	
Open Obstruction	0 … 40	20		3 Pos. (AUTO)			
Brake				One-way (EXIT)			
Without		X		Rocker & KeySw			
Closed position				Partial Opening			
Open position				**Display Panel**			
Closed / 1-Way / Locked				Language		DEUTSCH	ENG.US
Closed, Locked				Keyboard (Off or Locked)		Locked	OFF
Motor				Contrast BDE 1	0 … 40	20	
Without		X		Contrast BDE 2	0 … 40	20	
ATE 20				Brightness BDE1	0 … 40	20	
ATE 21				Brightness BDE2	0 … 40	20	
ATE 19 small				Light time delay	0 … 40	10	
ATE 19 large				**Default operating mode**			
ATE 16 normal				Off			
ATE 16 heavy				Locked		X	
ATE 17				Automatic			X
ATE 20 Folding door			X	Continuous open			
ATE 16 Folding door				**LOCKING**			
ATE 16 30V				**Locking function**			
ATE 20 / 200				Night locked		X	
Two motors				1-Way locked			
Disabled		X		Always locked			
Enabled				**Locking type**			
Emergency operating BAT				Without		X	
Close, do not lock				Motor-powered			
Unlock and open				Bi-stable			
Close and lock				MPV 20			
Open if not locked		X		MPV 16			
Power failure				"Magnet" Stand Alone Panel Locks			
Battery operation				Fail secure			
Emergency operation		X		Fail safe			
Battery				Double			
Without battery		X		**Start delay**	0 … 40	0	
Lead-acid battery				**Closed VRR error**		Disabled	
ENTRANCE SYSTEM				**Push force**	0 … 40	0	
A-dimension		2000		**CAN BUS**			
G-dimension		0		FEM-0		0	
Door leaf				FEM-1		0	
DST		X		AKI 1		0	
EST-L/R				SI 1		0	
				AKA 1		0	

MENU / PARAMETER	RANGE	DEFAULT	PLANT		MENU / PARAMETER	RANGE	DEFAULT	PLANT
CAN BUS (continued)					AUX04_IN (continued)			
SA 1		0			SURA			
SL		0			AKA Button			
SR		0			AKA Button Reduced			
AKI 2		0			VRR manual lock			
SI 2		0			Reset SÖK_NSK			
AKA 2		0			SIA			X
SA 2		0			AUX0_OUT			
INPUT/OUTPUT					Disabled		X	
STG					Test Sensors			
AUX00_IN					Alarm output			
Disabled		X			Gong			
SÖK or NSK					Locked			
SURV					Closed			
BDE-M_2					Warning			
Continuously Open					Open			X
SIS					AKI			
SIO					AKA			
AKI Button reduced					ZLP			
Broken rubber cord					ZLP1			
Opening Deadman					Without		X	
Closing Deadman					ELS			X
AKI Button					**FEM 0**			
Closing Button					**FEM 1**			
Ratchet					**Ext. Sw IN**			
Emergency Opening					Ext. Sw IN		X	
SURA					Inactive by 1-way & locked			
AKA Button					Disabled			
AKA Button Reduced					**Emergency Open / Close**			
VRR manual lock					Function			
Reset SÖK_NSK					Disabled			
SIA					Emergency open			
AUX01_IN					Emerg.Close; Rem.Sw			
Disabled		X			Emerg.Close & Lock		X	
SÖK or NSK					Emerg.Close,Lock & Rem			
SURV					Emerg.Close; Man'l Ovride			
BDE-M_1					Speed (Flip-Flow only)	0 … 40		
Continuously Open					**Emergency Stop Reset**			
SIS					**SIO**			
SIO					Function SIO			
AKI Button reduced					Stop		X	
Broken rubber cord					Creep			
Opening Deadman					Activate SIO	0 … 40	0	
Closing Deadman					Suppression SIO	0 … 40	40	
AKI Button					**SIS**			
Closing Button					Stop			
Ratchet					Reverse Direction		X	
Emergency Opening					Creep			
SURA					**SIA**			
AKA Button					Stop		X	
AKA Button Reduced					Creep (Slow Open)			
VRR manual lock					**MISCELLANEOUS**			
Reset SÖK_NSK					TOWA - Disabled or Enabled		Disabled	
SIA					Push to actuate Open			
AUX04_IN					Disabled		X	
Disabled		X			Normal			
SURV					Reduced			
Continuously Open					Push to actuate Close			
SIS					Disabled or Enabled		Disabled	
SIO					Push Holding force	0 … 40	0	
AKI Button reduced					Lead Time Open	0 … 40	1	
Broken rubber cord					Lead Time Close	0 … 40	1	
Opening Deadman					Alarm display			
Closing Deadman					Time release	0 … 40	18	
AKI Button					Time safety	0 … 40	18	
Closing Button					Obstruction Indication			
Ratchet					Disabled		X	
Emergency Opening					Enabled			