DAVENPORT
LIFT CONTROL

TECHNICAL DOCUMENTATION
D.L.C 200

UPDATED 07 01 201

Programversion V05.xx/V06.xx

!! IMPORTANT INSTALLATION NOTES !!

TO ENSURE COMPLIANCE WHITH EMC REGULATIONS,ALL MAINS CABLES MUST BE ARMOURED OR SCREENED AND SHOULD ENTER THE CONTROLLER CABINET AS CLOSE TO THE TERMINALS AS POSSIBLE

ALL DC EQUIPMENT SHOULD BE SUPPRESSED
E.G.
BRAKE COILS
CAMS
DC DOOR GEARS

Programversion V05.xx/V06.xx

general

1	value	safety-code, service section	
2	value	dto.	
3	value	safety-code, configuration	
4	value	dto.	
5	LED 5	service section „S“free	
	LED 6	configuration „K“ free	

TÜV - functions

7	LED 1	ignore levelled information (TÜV)	
	LED 2	ignore overload(TÜV)	
	LED 3	ignore reference and levelled switch (TÜV)	

testfunctions

8	LED 8	turning off lift program, testmode for single signals	
	LED 8+7	turning off lift program, special testmode	

state informations (no travelling possible)

10	LED 1	motor temperature too high	
	LED 2	safety circuit, door or door lock contact open	
	LED 3	running / relevelling time exceeded	
	LED 4	emergency stop stored (stop-button, light barrier)	
	LED 5	overtravel of final limit switch stored	
	LED 6	inspection, electrical recall or installation mode is active	
	LED 7	error LIFTBUS	
	LED 8	system error (EEPROM mainbord defect or wrong)	
11	LED 1	both reset swiitches active	
	LED 2	transmission of floor selector signals faulty	
	LED 3	transmission of door signals faulty	
	LED 5	ZSE-switch fault	
	LED 6	overload active	
	LED 7	locked from emergency evacuation	
	LED 8	error safety module	
12	LED 1	locked from main supply supervision	
	LED 2	door locking fault	
	LED 3	door close / open time exceeded	
	LED 4	door cannot be closed	
	LED 5	fault door limit switch / door contact bridged	
	LED 6	error at light curtain test	

	LED 8	locked from regulating device (multiple errors)	

encoder floor selector

13	LED 1	wrong adjustment	
	LED 2	error floor selector	

expanded fault display (since version V05.03D)

14	40	final limit swich bottom	
	41	final limit switch top	
	42	limt swich circuit is open	
	43	safety circuit is open	
	44	door doesn´t close after door limit time (hinged doors or hinged + autom. door 4x time)	
	45	door lock contact cannot close	
	46	emergency stop through door contact	
	47	emergency stop through doo lock contact	
	80	call button is allways actuated	

special functions for ship lifts - since V05.03

15	LED 1	error puls switch on governor	
	LED 2	anti creep device faulty	
	LED 3	trap door was or is open	
	LED 4	reset necessary for anti creep device	
	LED 5	start not enabled	
	LED 6	door not enabled	

errors from regulating device with LIFTBUS-interface

18	01	wrong phase	
	02	temperature too high	
	03	motortemperatur (PTC connected to regulator) MICOVERT 2001	
	04	no pulses from pulse-generator or motor doen´t run in case of travel command is present	
	05	wrong direction	
	06	setpoint/actual-difference is too high	
	07	mains voltage out or too low	
	08	error main contactor at start, MICOVERT 2001	
	09	error main contactor in travel, MICOVERT 2001	
	10	not enabled, MICOVERT 2001	
	11	direction UP-DOWN simultaneous, MICOVERT 2001	
	12	fault at precharging the intermediate circuit, MICOVERT 2001	
	13	overvoltage intermediate circuit VVVF-regulator	
	14	andervoltage intermediate circuit VVVF-regulator	
	15	overcurrent VVVF-regulator	

state messages

20	LED 1	installation mode active	
	LED 2	fireman service active	
	LED 3	landing priority active	
	LED 4	switch off control and car light active	
	LED 5	switch off landing calls and door drive active	
	LED 6	car priority active	
	LED 7	full-load active	
	LED 8	speed monitoring v<=0,3m/s faulty	

21	LED 1	write or read error EEPROM mainboard	

	LED 2	checksum EEPROM mainboard is wrong	
	LED 3	not ready for group	
	LED 4	out of order	
	LED 5	intermediate door is open	
	LED 6	fault travel contactors (short flashing at start is normal)	

regulator with LIFTBUS-interface

28	LED 5	wrong direction at start (< 0,5s) (Micompact) / deceleration distance intermediate speed V3 too short (Micovert)	
	LED 6	regulator overloaded	
	LED 7	deceleration distance intermediate speed V2 too short	
	LED 8	deceleration distance nominal speed too short	

data transmission I/O-boards (transmission error)

30	LED 2	shaft signals landing 1	(1)	
	LED 3-8	landing 2...7	(2...7)	
31	LED 1-8	landing 8...15	(8...15)	
32	LED 1-8	landing 16...23	(16...23)	
33	LED 1-8	landing 24...31	(24...31)	
34	LED 1	landing 32	(32)	
	LED 2	car main side	(33)	
	LED 3	car 2nd-side	(34)	
	LED 8	main door	(39)	
35	LED 1	2nd-door	(40)	
	LED 2	floor selector, levelled signals	(41)	
	LED 3	service board	(42)	
	LED 4	fire service inputs	(43)	
	LED 7	group	(46)	
	LED 8	floor selector, counting pulses	(47)	
36	LED 1	reference switch top, bottom	(48)	
	LED 2	speed monitoring	(49)	
	LED 3	regulator with LIFTBUS-interface	(50)	
	LED 4	special function 1	(51)	
	LED 5	special function 2	(52)	
	LED 6	special function 3	(53)	
	LED 7	special function 4	(54)	
	LED 8	remote control	(55)	
38	value	sum of registered transmission errors		
39	value	type of transmission error which will be counted at address 38		
	0	counting of all transmission errors according to address 30 to 37		
	1...	counting of selected transmission errors (values of address 30 – 37 in brackets)		

trip counter

40	value	trip counter, 100.000´s and 10.000´s position	
41	value	trip counter, 1.000´s and 100´sr position	

42	value	trip counter, 10´s and 1´s position	

operating hour counter

45	value	operating hours, 100.000´s and 10.000´s position	
46	value	operating hours, 1.000´s and 100´s position	
47	value	operating hours, 10´s and 1´s position	

48	value	transmission errors (same as at address 38 – but not cleared when power is off)	

50	value	checksum EEPROM mainboard	
51	value	checksum EEPROM mainboard	

commands, door commands

60	value	0 = car call main side 1 = car call 2nd-side 2 = landing call DOWN main side 3 = landing call DOWN 2nd-side 4 = landing call UP main side 5 = landing call UP 2nd-side 6 = landing priority main side 7 = landing priority 2nd-side	
61	value	no. of landing for selected call	
62	value	1 = door open main side 2 = door open 2nd-side	

floor independent signals

100	LED 1	door lock contact	
	LED 2	door contact	
	LED 3	safety circuit	
	LED 4	final limit switch	
	LED 5	stop switch car	
	LED 6	normal travel	
	LED 7	inspection (el. recall) UP	
	LED 8	inspection (el. recall) DOWN	
102	LED 1	landing calls , door drive on	
	LED 2	lift in travel	
	LED 3	switch off control/light active	
	LED 4	contact safety module closed	
	LED 5	signal 1 for emergency evacuation	
	LED 6	signal 2 for emergency evacuation	
	LED 7	v<=0,3m/s , mainboard	
	LED 8	motortemperature PTC	
104	LED 1	relay AL (carlight at drive matrix 0)	
	LED 4	relay VSO (retiring cam at drive matrix 0)	
	LED 5	relay C4 (levelling speed at drive matrix 0)	
	LED 6	relay C3 (nominal speed at drive matrix 0)	
	LED 7	relay C2 (direction DOWN at drive matrix 0)	
	LED 8	relay C1 (direction UP at drive matrix 0)	

105	LED 1	driver output SM (fault message at drive matrix 0)	
	LED 2	driver output TZ (levelled zone at drive matrix 0)	
	LED 3	driver output V0 (speed general at drive matrix 0)	
	LED 4	driver output V1 (inspectionsspeed at drive matrix 0)	
	LED 5	driver output VNR (relevelling at drive matrix 0)	

BUS drive-signals

106	LED 1	BUS-output signal carlight	
	LED 2	BUS-output signal intermediate speed 2	
	LED 3	BUS-output signal intermediate speed 3	
	LED 4	BUS-output signal retiring cam	
	LED 5	BUS-output signal levelling speed	
	LED 6	BUS-output signal nominal speed	
	LED 7	BUS-output signal direction DOWN	
	LED 8	BUS-output signal direction UP	

107	LED 1	BUS-output signal fault message	
	LED 2	BUS-output signal levelled zone	
	LED 3	BUS-output signal speed general	
	LED 4	BUS-output signal inspectionsspeed	
	LED 5	BUS-output signal relevelling	
	LED 6	BUS-output signal Nachregulierspeed	
	LED 7	BUS-output signal emergency evacuation finished	
	LED 8	BUS-output signal special at hydraulic -> switching off UP-valve soft stop (Matrix 4) at tractionlift -> delay for travel contactors (Matrix 5)	

car-inputs

110	LED 1	overload	
	LED 2	full-load	
	LED 3	minimum load	
	LED 4	car priority	
	LED 5	fireman service	
	LED 6	intermediate door contact	
	LED 7	door open button main side	
	LED 8	door close button main side	
112	LED 7	door open button 2nd-side	
	LED 8	door close button 2nd-side	

car-outputs

114	LED 1	direction indicator DOWN	
	LED 2	direction indicator UP	
	LED 3	overload indicator	
	LED 4	landing priority indicator	
	LED 5	fire service indicator	
	LED 6	hall lantern DOWN	
	LED 7	hall lantern UP	
	LED 8	nudging device 2nd-side	

shaft outputs

120	LED 1	out of order indicator	
	LED 2	occupied indicator	
	LED 3	car in travel indicator	
	LED 4	hall lantern DOWN main floor	
	LED 5	hall lantern UP main floor	
	LED 6	ready for group	
	LED 7	indicator emergency stop stored	
	LED 8	nudging device main side	

floor selector

130	LED 1	levelled switch DOWN	
	LED 2	levelled switch UP	
	LED 3	levelled	
	LED 4	reference switch for encoder floor selector	
	LED 5	counting pulse DOWN	
	LED 6	counting pulse UP	
	LED 7	reference switch bottom	
	LED 8	reference switch top	

131	LED 1	counting pulse DOWN	
	LED 2	counting pulse UP	

132	LED 7	reference switch bottom	
	LED 8	reference switch top	

speedmonitor

134	LED 1	speed <= 0,3m/s	
	LED 2	speed <= 0,8 x nominal speed	

135	value	indicator car position	

input signals doors

140	LED 1	door close limitswitch main side	
	LED 2	door open limitswitch	
	LED 3	lightbarrier door main side	
	LED 4	shock contact door main side	
142	LED 1	door close limitswitch 2nd-side	
	LED 2	door open limitswitch	
	LED 3	lightbarrier door 2nd-side	
	LED 4	shock contact door 2nd-side	

output signals doors

144	LED 1	door close main side	
	LED 2	door open main side	
	LED 3	retiring cam main side	
	LED 4	door main side offen	
	LED 5	door close 2nd-side	
	LED 6	door open 2nd-side	
	LED 7	retiring cam 2nd-side	
	LED 8	door 2nd-side offen	

fire service inputs

150	LED 1	fireman service	
	LED 2	fire recall	
	LED 3	fireman service „SET“	
	LED 4	fireman sevice „RESET“	

remote control

152	LED 1	switch off control/light	
	LED 2-4	FBI2 ... disable landing calls , FBI3 ... disable car calls FBI4 ... take lift out of the group	

153	LED 1-4	outputs remote control for special purposes FBO1-4	

car calls

200	LED 1-8	car calls main side CP1 ... CP8	
201	LED 1-8	CP9 ... CP16	
202	LED 1-8	CP17 ... CP24	
203	LED 1-8	CP25 ... CP32	

205	LED 1-8	car calls 2nd-side CP1D ... CP8D	
206	LED 1-8	CP9D ... CP16D	
207	LED 1-8	CP17D ... CP24D	
208	LED 1-8	CP25D ... CP32D	

car call acceptance

210	LED 1-8	car call acceptance main side CA1 ... CA8	
211	LED 1-8	CA9 ... CA16	
212	LED 1-	CA17 ... CA24	

	8		
213	LED 1-8	CA25 ... CA32	

215	LED 1-8	car call acceptance 2nd-side CA1D ... CA8D	
216	LED 1-8	CA9D ... CA16D	
217	LED 1-8	CA17D ... CA24D	
218	LED 1-8	CA25D ... CA32D	

landing calls

220	LED 1-8	landing call main side UP1 ... UP8	
221	LED 1-8	UP9 ... UP16	
222	LED 1-8	UP17 ... UP24	
223	LED 1-8	UP25 ... UP32	

225	LED 1-8	landing call 2nd-side UP1D ... UP8D	
226	LED 1-8	UP9D ... UP16D	
227	LED 1-8	UP17D ... UP24D	
228	LED 1-8	UP25D ... UP32D	

230	LED 1-8	landing call main side BB1 ... BB8	
231	LED 1-8	BB9 ... BB16	
232	LED 1-8	BB17 ... BB24	
233	LED 1-8	BB25 ... BB32	

235	LED 1-8	landing call 2nd-side BB1D ... BB8D	
236	LED 1-8	BB9D ... BB16D	
237	LED 1-8	BB17D ... BB24D	
238	LED 1-8	BB25D ... BB32D	

landing call acceptance

240	LED 1-8	landing call acceptance main side IU1 ... IU8	
241	LED 1-8	IU9 ... IU16	
242	LED 1-8	IU17 ... IU24	
243	LED 1-8	IU25 ... IU32	

245	LED 1-8	landing call acceptance 2nd-side IU1D ... IU8D	
246	LED 1-8	IU9D ... IU16D	

247	LED 1-8	IU17D ... IU24D	
248	LED 1-8	IU25D ... IU32D	

250	LED 1-8	landing call acceptance main side ID1 ... ID8	
251	LED 1-8	ID9 ... ID16	
252	LED 1-8	ID17 ... ID24	
253	LED 1-8	ID25 ... ID32	

255	LED 1-8	landing call acceptance 2nd-side ID1D ... ID8D	
256	LED 1-8	ID9D ... ID16D	
257	LED 1-8	ID17D ... ID24D	
258	LED 1-8	ID25D ... ID32D	

hall lantern

260	LED 1-8	hall lantern main side HLU1 ... HLU8	
261	LED 1-8	HLU9 ... HLU16	
262	LED 1-8	HLU17 ... HLU24	
263	LED 1-8	HLU25 ... HLU32	

265	LED 1-8	hall lantern 2nd-side HLU1D ... HLU8D	
266	LED 1-8	HLU9D ... HLU16D	
267	LED 1-8	HLU17D ... HLU24D	
268	LED 1-8	HLU25D ... HLU32D	

270	LED 1-8	hall lantern main side HLD1 ... HLD8	
271	LED 1-8	HLD9 ... HLD16	
272	LED 1-8	HLD17 ... HLD24	
273	LED 1-8	HLD25 ... HLD32	

275	LED 1-	hall lantern 2nd-side HLD1D ... HLD8D	

	8		
276	LED 1-8	HLD9D ... HLD16D	
277	LED 1-8	HLD17D ... HLD24D	
278	LED 1-8	HLD25D ... HLD32D	

landing priority

280	LED 1-8	landing priority main side at landing BV1...BV8	
281	LED 1-8	landing BV9...BV16	
282	LED 1-8	landing BV17...BV24	
283	LED 1-8	landing BV25...BV32	

285	LED 1-8	landing priority 2nd-side at landing BV1D...BV8D	
286	LED 1-8	landing BV9D...BV16D	
287	LED 1-8	landing BV17D...BV24D	
288	LED 1-8	landing BV25D...BV32D	

290	LED 1-8	landing priority acceptance main side in landing VAL1...VAL8	
291	LED 1-8	landing VAL9...VAL16	
292	LED 1-8	landing VAL17...VAL24	
293	LED 1-8	landing VAL25...VAL32	

295	LED 1-8	landing priority acceptance 2nd-side in landing VALD1...VALD8	
296	LED 1-8	landing VALD9...VALD16	
297	LED 1-8	landing VALD17...VALD24	
298	LED 1-8	landing VALD25...VALD32	

ZSE - switch

330	LED 1-8	floorswitch ZSE1 ... ZSE8 /. fire recallinputs 1-8 at fire control version 2 / door close button main side at ship lift - since V05.03	
331	LED 1-	ZSE9 ... ZSE16 /	

	8	fire recallinputs 9-16 at fire control version 2 / door close button main side at ship lift - since V05.03	
332	LED 1-8	ZSE17 ... ZSE24 / fire recallinputs 17-24 at fire control version 2 / door close button main side at ship lift - since V05.03	
333	LED 1-8	ZSE25 ... ZSE32 / fire recallinputs 25-32 at fire control version 2 / door close button main side at ship lift - since V05.03	

additional call

335	LED 1-8	additional button for direct call landing 1 - 8 / door close button 2nd-side at ship lift - since V05.03	
336	LED 1-8	additional button for direct call landing 9 - 16 / door close button 2nd-side at ship lift - since V05.03	
337	LED 1-8	additional button for direct call landing 17 - 24 / door close button 2nd-side at ship lift - since V05.03	
338	LED 1-8	additional button for direct call landing 25 - 32 / door close button 2nd-side at ship lift - since V05.03	

special inputs from car (ship lift) – special function 3

340	LED 1	contact anti creep device (NO)	
	LED 2	contact anti creep device (NC)	
	LED 3	contact Trap door (NO)	

special inputs from shaft (ship lift) – special function 4

345	LED 1	shaft door bottom closed	
	LED 2	reset input anti creep device	
	LED 3	pulse input speed governor	
	LED 4	startfreigabe	
	LED 5	doorfreigabe	
	LED 6	activation additional parklanding 1 - since V05.03A	
	LED 7	activation additional parklanding 2 - since V05.03A	

special outputs shaft (ship lift) – special function 4

346	LED 1	output for anti creep device	
	LED 2	output door hold magnet	
	LED 3	relay shaft light	
	LED 4	lift will start UP	
	LED 5	lift will start DOWN	

inputs for attandend service (since version V05.04)

348	LED 1	start button UP	
	LED 2	start button DOWN	
	LED 3	button „nonstop“	
	LED 4	attandend sevice	

outputs for attandend service, fault trigger (since version V05.04)

349	LED 1	UP travelling requested	
	LED 2	DOWN travelling requested	
	LED 3	acceptance „nonstop“	
	LED 4	acceptance attandend sevice	
	LED 8	fault trigger	

adjustments of landings

			range	value
350	value	no. of landings single controller no. of landings group controller	2 – 32 2 – 31	
351	value	landing for emergency evacuation	0 – 32	
352	value	landing for fire service	1 – 32	
353	value	priority landing	0 - 32	
354	value	main floor	1 - 32	
355	value	landing for switch off control/light	0 - 32	
356	value	parklanding (time adjustable at address 415)	0 - 32	
357	value	assignment of signal SA2 (switch off control /light) to general or floor specific I/O-board	0 - 32	
358	value	alternate fire service landing (fire control version 2)	0 - 32	
359	LED 2 LED 3	fire serviceswitch UP Haupt- oder 2nd-side switch switch off control/light (signal SA2) UP main- or 2nd-side	0 - 1 0 - 1	

doors main side

360	LED 1-8	doors main side at landing 1 ... 8	0 - 1	
361	LED 1-8	9 ... 16	0 - 1	
362	LED 1-8	17 ... 24	0 - 1	
363	LED 1-8	25 ... 32	0 - 1	

doors 2nd-side

364	LED 1-8	doors 2nd-side at landing 1 ... 8	0 – 1	
365	LED 1-8	9 ... 16	0 – 1	
366	LED 1-8	17 ... 24	0 – 1	
367	LED 1-8	25 ... 32	0 – 1	

short-travel, near stops

370	LED 1-8	near stop between 1-2 ... 8-9	0 – 1	
371	LED 1-8	9-10 ... 16-17	0 – 1	
372	LED 1-8	17-18 ... 24-25	0 – 1	
373	LED 1-7	25-26 ... 31-32	0 – 1	

disabling of calls

380	LED 1-8	disable via remote control for landing 1 ... 8	0 - 1	
381	LED 1-8	9 ... 16	0 - 1	

382	LED 1-8	17 ... 24	0 - 1	
383	LED 1-8	25 ... 32	0 - 1	

additional parklandings - since V05.03A

390	value	additional parklanding 1	0 - 32	
391	value	additional parklanding 2	0 - 32	

adjustable timers

400	value	running time floor to floor	1 -100s	
401	value	runnig time in levelled position	1 -30s	
402	value	relevelling time	1 -30s	
403	value	stop to start time	1 -10s	
404	value	delay of levelled signal (x 0,01)	0 -1s	
405	value	evacuation time	1 -100s	
406	value	time for switch off carlight (0 = don´t switch off)	0-11min	
407	value	time for car call preference	1 -10s	
408	value	start delay after door lock contact (x 0,1)	0 -2s	
409	value	reset time landing priority	1 -100s	
410	value	delay retiring cam (x =0,1)	0 - 2s	
411	value	door close-,open time = time for limit switch simulation	1 - 100s	
412	value	door open time	1 - 100s	
413	value	delay for dootractionning after travel (x 0,1)	0 - 2s	
415	value	parking time / reset time door-open store function 0 = 30s, 1-11 = 1-11min, 12-59 = 12-59s (since V05.05A)	0-11min 12 - 59s	
416	value	pump delay (UP) / delay for contactors (x 0,1)	0 - 10s	
417	value	valve delay (DOWN) Beringer (x 0,1)	0 - 10s	
418	value	delay for reopening the door(x 0,1)	0 - 10s	
419	value	nudging time	0 - 100s	
420	value	time for reducing the brake voltage	1 - 10s	
421	value	time for pulse monitoring at governor during start(ship lift) since V05.03	1 - 100s	
422	value	time for pulse monitoring at governor during travel (ship lift) - since V05.03	1 - 100s	
423	value	time for additional parklanding 1 – since V05.03A	0 - 100s	
424	value	time for additional parklanding 2 - since V05.03A	0 - 100s	
425	value	door open time main floor - since V05.03C	1 - 100s	
426	value	door locking time monitoring - since V05.04A	5 - 100s	

timer for short travel / near landings

430	LED 1	time base 0,02s	0	
		time base 0,04s	1	
	LED 3	additional correction bottom at short travel	0 - 1	
	LED 4	additional correction top at short travel	0 - 1	
	LED 5	correction travel to top floor - since V05.03	0 - 1	
	LED 8	start with nominal speed	0	
		start with intermediate speed(only for regulated traction-lift e.g. MICOMPACT, MICOVERT -> intermediate speed 2)	1	

(adjusted value x timebase)

431	value	for landing 1, time for deceleration from nominal / intermediate speed to levelling speed	0 - 100	
432	value	for landing 2 - 3	0 - 100	
433	value	for landing 3 - 4	0 - 100	
434	value	for landing 4 - 5	0 - 100	
435	value	for landing 5 - 6	0 - 100	
436	value	for landing 6 - 7	0 - 100	
437	value	for landing 7 - 8	0 - 100	
438	value	for landing 8 - 9	0 - 100	
439	value	for landing 9 - 10	0 - 100	
440	value	for landing 10 - 11	0 - 100	
441	value	for landing 11 - 12	0 - 100	
442	value	for landing 12 - 13	0 - 100	
443	value	for landing 13 - 14	0 - 100	
444	value	for landing 14 - 15	0 - 100	
445	value	for landing 15 - 16	0 - 100	
446	value	for landing 16 - 17	0 - 100	
447	value	for landing 17 - 18	0 - 100	
448	value	for landing 18 - 19	0 - 100	
449	value	for landing 19 - 20	0 - 100	
450	value	for landing 20 - 21	0 - 100	
451	value	for landing 21 - 22	0 - 100	
452	value	for landing 22 - 23	0 - 100	
453	value	for landing 23 - 24	0 - 100	
454	value	for landing 24 - 25	0 - 100	
455	value	for landing 25- 26	0 - 100	
456	value	for landing 26 - 27	0 - 100	
457	value	for landing 27 - 28	0 - 100	
458	value	for landing 28 - 29	0 - 100	
459	value	for landing 29 - 30	0 - 100	
460	value	for landing 30 - 31	0 - 100	
461	value	for landing 31 - 32	0 - 100	

490	value	time for external timer 1 (not in use)		
491	value	time for external timer 2 (not in use)		

safety codes

501	value	safety code S, 1. number	0 - 99	
502	value	safety code S, 2. number	0 - 99	
503	value	safety code K, 1. number	0 - 99	
504	value	safety code K, 2. number	0 - 99	

programversion

506	value	display of program version first number	0 - 99	
507	value	display of program version 2. - number	0 - 99	
508	value	display of program revision number	0 - 26	

type of floor selector

510	value	~~0=ZSE selector,~~ (since V05.05F) 1=counting pulse selector, 2=encoder floor selector, 3=counting pulse selector for single seed lifts	0 - 3	

floor selector options

511	LED 1	ZSE-correction (since V05.05F)	0 - 1	

type of control

515	value	0=single button control, 1=direction independend collective control, 2=collective down control, 3=collective up & down control 4=collective up & down control with abuse recognition	0 - 4	

controller options

516	LED 1	abuse recognition for car calls	0 - 1	
	LED 2	main floor collects only UP calls (only for collective DOWN-control)	0 - 1	
	LED 5	initialization of group after 30s when lift is not in travel (V06.01C)	0 - 1	
	LED 6	disable check for buttons (V05.03G)	0 - 1	
	LED 7	don´t place expanded fault codes (40-47) in the fault stack (since version V05.03D)	0 - 1	
	LED 8	don´t register overtravelling of levelled position(fault 25 and 26) - since V05.03	0 - 1	

type of doors

520	value	0=hinged doors 1=combined door (hinged + automatic door) 2=automatic doors (3-phase door drive) 3=regulated door drive 4=besam-door 5=technolama door 6=DAVENPORT F2-door (door-close signal isn´t switched off)	0 - 6	

special functions for doors

521	LED 1	no automatic door at main side	0 - 1	
	LED 2	no automatic door at 2nd-side	0 - 1	
	LED 3	special function of stop button for automatic door	0 - 1	
	LED 4	unlock the shaft door when car door is fully open (since version V05.03D) – for combined doors	0 - 1	
	LED 5	door main side stays open at parklanding (V05.03G)	0 - 1	
	LED 6	door 2nd-side stays open at parklanding (V05.03G)	0 - 1	
	LED 7	extra door open time at main floor - since V05.03C	0 - 1	
	LED 8	door close output when car is in travel	0 - 1	

additional door functions

522	LED 1	don´t switch off the door drive with door limit switches (since V05.04G)	0 - 1	
	LED 2	don´t reopen the door with call button when direction is present (V06.01D)	0 - 1	
	LED3	open the door only at exact levelled position (V06.01F)	0 - 1	

controller options 1

525	LED 1	inspection speed (0=slow, 1=fast)	0 - 1	
	LED 2	controlled drive (0), regulated drive (1)	0 - 1	
	LED 3	relevelling OFF(0), ON(1)	0 - 1	
	LED 4	traction-lift (0), hydraulic-lift (1)	0 - 1	
	LED 5	input of signal UEF1 assigned to the main board	0 - 1	
	LED 6	no correction travel when the car is in the levelled position (1) -> bufferd RAM required	0 - 1	
	LED 7	activation of inputs for 2nd-side (1)	0 - 1	
	LED 8	installation mode (1)	0 - 1	

controller options 1

526	LED 1	end of inspection at reference switch bottom	0 - 1	
	LED 2	end of inspection at reference switch top	0 - 1	
	LED 3	adaptions for EN81 - 1998 (since V05.05)	0 - 1	
	LED 7	door closing at fire service landing (since V05.04F)	0 - 1	
	LED 8	attandand service / fault trigger present	0 - 1	

drive matrix

527	0 1 2 3 4 5	standard regulated drive with BUS interface and option relevelling or preopening of doors selected special (not in use) Beringer hydraulic (ELRV) hydraulic "special" (LS2E) traction-lift "special" (LS2E - NORDAC)	0 - 5	

controller options 2

530	LED 1	relevelling after switch off control/light OFF(0), ON(1)	0 - 1	
	LED 3	overtravel path too short OFF(0), ON(1)	0 - 1	
	LED 4	store overtravelling of limit switch OFF(0), ON(1)	0 - 1	
	LED 5	store stop-button function OFF(0), ON(1)	0 - 1	
	LED 6	don´t store stop-button at levelling in door zone	0 - 1	
	LED 7	testing of light curtain with hinged doors ON (1), OFF (0)	0 - 1	
	LED 8	clear car call acceptance when stop-button is stored ON (1), OFF (0) (only for special connection of call buttons)	0 - 1	

specialfunctions for ship lifts (since version V05.03)

531	LED 1	supervision for anti creep device	0 - 1	
	LED 2	supervision trap door	0 - 1	
	LED 3	door hold magnet	0 - 1	
	LED 4	supervision spedd governor	0 - 1	
	LED 6	start enable signal	0 - 1	
	LED 7	door enable signal	0 - 1	
	LED 8	additional parklanding - since V05.03A	0 - 1	

doorstatus

535	LED 1	doors stay open at landing NO(0), YES(1)	0 - 1	
	LED 2	ptractionning doos NO (0), YES(1)	0 - 1	
	LED 3	door close with car call button NO(0), YES(1)	0 - 1	
	LED 4	nudging device NO(0), YES(1)	0 - 1	
	LED 5	door limit switch simulation NO(0), YES(1)	0 - 1	
	LED 6	door open with car call button NO(0), YES(1)	0 - 1	
	LED 7	selective doors at all landings NO(0), YES(1)	0 - 1	
	LED 8	lock out simultaneous door opening with selective doors NO(0), YES(1)	0 - 1	

landings with selectiv doors

(if not all landings are selective) – since V05.04B

536	LED 1-8	selective doors at landing 1 ... 8	0 - 1	
537	LED 1-8	9 ... 16	0 - 1	
538	LED 1-8	17 ... 24	0 - 1	
539	LED 1-8	25 ... 32	0 - 1	

specialtravel (landing priority)

540	LED 1	imediately drive to landing NO(0), YES(1)	0 - 1	
	LED 2	reopen doors again NO(1), YES(0)	0 - 1	
	LED 3	finish car calls NO(0), YES(1)	0 - 1	
	LED 4	reset after execution of car call NO(0), YES(1)	0 - 1	
	LED 5	store door open buttonNO(0), YES(1)	0 - 1	
	LED 6	expand door open storage time with lightbarrier NO(0), YES(1)	0 - 1	
	LED 7	reset landing priority after adjusted time NO(0), YES(1)	0 - 1	
	LED 8	reset landing priority when car call button is pressed NO(0), YES(1)	0 - 1	

fireman control

545	value	0=OFF, 1=version 1 – standardfunction, 2=version 2 – fire detector operation, 3=swizerland special – top floor enabled	0 - 3	

emergency evacuation

547	value	emergency evacuation 0=OFF, 1=version 1 (standard), 2=version 2 (emergency lowering operation)	0 - 2	

countrycode

549	value	0 = neutral, 31 = Netherlands, 41 = Swizerland, 43 = Austria, 44 = United Kingdom, 46 = Sweden, 47 = Norway, 48 = Poland, 61 = Australia 70 = Russia (GUS) 86 = China	0 - 99	

brake voltage

550	value	brakevoltage 1 at start % (99% ~ 195V)	0 - 99	
551	value	brakevoltage 2 after adjustable time % (99% ~ 195V)	0 - 99	

types of contacts (0=NO, 1=NC)

560	LED 4	ZSE-switch	0 - 1	
561	LED 1	levelled DOWN	0 - 1	
	LED 2	levelled UP	0 - 1	
	LED 3	levelled	0 - 1	
562	LED 1	counting pulses DOWN	0 - 1	
	LED 2	counting pulses UP	0 - 1	
563	LED 7	reference switch bottom	0 - 1	
	LED 8	reference switch top	0 - 1	
564	LED 1	fire service FW (since V05.05E)	0 - 1	
	LED 2	fire recall FW2 (since V05.05E)	0 - 1	
	LED 3	fire service SET FWS (since V05.05E)	0 - 1	
	LED 4	fire service RESET FWR (since V05.05E)	0 - 1	
565	LED 1	door close limit switch main & 2nd -side	0 - 1	
	LED 2	door open limit switch main & 2nd-side	0 - 1	
	LED 3	light barrier main & 2nd-side	0 - 1	
	LED 4	shock contact main & 2nd-side	0 - 1	
567	LED 1	overload	0 - 1	
	LED 2	full-load	0 - 1	
	LED 3	minimum load	0 - 1	
	LED 6	intermediate door contact	0 - 1	
	LED 7	door open button	0 - 1	
	LED 8	door close button	0 - 1	
568	LED 5	emergency evacuation input 1 (mainboard)	0 - 1	
	LED 6	emergency evacuation input 2 (mainboard)	0 - 1	

group options

570	value	no. of lift in the group 0=single lift, 1-4 no. of lift	0 - 4	
571	LED 1	input for landing calls present NO(1), YES(0)	0 - 1	
	LED 2	landing priority managed by group	0 - 1	
	LED 3	additional call collects only DOWN-calls (not selective)	0 - 1	
	LED 4	additional call collects only UP-calls (not selective)	0 - 1	
	LED 5	parklanding managed by group	0 - 1	
	LED 6	acceptance of landing calls after car priority time (since V05.03)	0 - 1	
	LED 7	enable switching lift out of group with signal FBI4 (since version V05.03C)	0 - 1	
572	value	no. of landings under group (offset)	0 - 5	
573	value	influence of car calls for group calculations(0=no, 13=strong)	0 - 13	
578	value	time after whitch the lift is taken out of group when door can´t be closed	10 - 100	
579	value	call delay time (min. delay for acception of landing call from group (since V05.04D)	0 - 100	

service & TELESERVICE

580	LED 1	Servicemonitor connected NO(0), YES(1)	0 - 1	
	LED 2	TELESERVICE connected NO(0), YES(1)	0 - 1	
	LED 8	modification of data with servicemonitor allowed NO(0), YES(1)	0 - 1	

automatict travels (since version V05.02D)

581	value	hours	0-100	
582	value	minits	0-59	
583	value	landing 1	0-32	
584	value	landing 2	0-32	

All 0 → funcion not activated

timer for switch off control and light

(only with buffered RAM)

Time for activation of the function

585	value	month	0-12	
586	value	day	0-31	
587	value	day of week 1=monday, ...	0-7	
588	value	hour	0-23	
589	value	minute	0-59	

All 0 → funcion not activated

Time for deactivation of the function

590	value	month	0-12	
591	value	day	0-31	
592	value	day of week	0-7	
593	value	hour	0-23	
594	value	minute	0-59	

switch off state

595	LED 1	1=switched off from timer	0 - 1	
	LED 2	1=switched off from trip counter	0 - 1	

switch off control and light with trip counter

no. of travels when function will be activated

596	value	100 000´s and 10 000´s position	0 - 99	
597	value	1000´s and 100´s position	0 - 99	
598	value	10´s and 1´s position	0 - 99	

All 0 → funcion not activated

drive regulator with LIFTBUS-interface

600	LED 1	regulator connected NO(0), YES(1)	0 - 1	
	LED 2	setpiontreduction OFF (0), ON (1)	0 - 1	
	LED 3	optimization of deceleration distance intermediate speed 2	0 - 1	
	LED 4	optimization of deceleration distance nominal speed	0 - 1	
	LED 5	speed signal V03 and V08 OFF (0), ON (1)	0 - 1	
	LED 7	optimization of deceleration distance intermediate speed 3	0 - 1	
	LED 8	direct levelling OFF(0), ON(1)	0 - 1	

601	value	actual speed value (% of synchroneous speed)	0 - 100	
603	value	relevelling speed (VNR) x 0,1%	10 - 100	
604	value	inspection speed (V1) in %	10 - 100	
605	value	levelling speed V0 x 0,2%	10 - 100	
606	value	intermediate speed TZ2 in %	2 - 100	
607	value	nominal speed VN in %	25 - 100	
608	value	acceleration in %	1 - 100	
609	value	jerk at acceleration in %	1 - 100	
610	value	deceleration in %	1 - 100	
611	value	jerk at deceleration in %	1 - 100	
612	value	start torque in %	0 - 100	
613	value	startdelay x 10ms	0 - 100	
614	value	pre-braking in %	0 - 100	
615	value	speed for activation of the brake x 0,01%	0 - 100	
616	value	brake-ramp in %	1 - 100	
617	value	post-braking in %	0 - 100	
618	value	no. of motorpoles (0=2poles, 1=4poles, 2=6poles)	0 - 2	
619	value	no. of encoder pulses (thousands and hundreds)	0 - 40	
620	value	no. of encoder pulses (ten´s and one´s)	0 - 99	
621	value	regulator attenuation at acceleration in %	0 - 100	
622	value	regulator attenuation at nominal speed in %	0 - 100	
623	value	regulator attenuation at deceleration in %	0 - 100	
624	value	regulator attenuation at stopping in %	0 - 100	
625	value	speed signal UEF1 (v<=0,3m/s) in %	0 - 100	
626	value	speed signal UEF2 (V<=0,8x nominal speed) in %	0 - 100	
627	value	intermediate speed TZ3 in %	25 - 100	
628	value	10xnominal current in A, thousend´s and hundred´s	0 - 99	
629	value	10xnominal current in A, ten´s and one´s	0 - 99	
630	value	nominal motor rpm´s , thousend´s and hundred´s	0 - 36	
631	value	nominal motor rpm´s, ten´s and one´s	0 - 99	
632	value	100 x cos φ	65 - 95	
633	LED 1	direction of encoder	0 - 1	
	LED 2	direction of motor	0 - 1	
634	value	slip compensation for drives without encoder	0 - 100	
635	value	additional value nominal speed (if more than 100% necessary) – since V05.04E	0 - 20	
636	value	display of the adjusted nominal speed (hexadezimal) 64 -> 100%, 78 -> 120% - since V05.04E	0 - 78	

LAM3 - indicator

650	LED 1	out of order display when lift is switched off OFF(0), ON(1)	0 - 1	
	LED 2	centerd character at indicator 1 YES(0), NO(1)	0 - 1	
	LED 3	scrolling of indicator 1 YES(0), NO(1)	0 - 1	
	LED 4	same brightness at all landings YES(0), NO(1)	0 - 1	
	LED 5	same brightness at main & 2nd-side YES(0), NO (1)	0 - 1	
	LED 6	same characters at main & 2nd-side YES(0), NO(1)	0 - 1	
	LED 7	centerd character at indicator 2 YES(0), NO(1)	0 - 1	
	LED 8	display of DIL switch adjustment H=main side, D=2nd-side, S=special program, 0=car, 1...=landing		
651	LED 1	change scrolling directions at landings	0 - 1	
	LED 2	change scrolling directions in car	0 - 1	
	LED 3	floor module used only for indicators (since UEA.V12)	0 - 1	

carindicator

652	LED 1	indicator 1 (car position) ON(0), OFF(1)	0 - 1	
	LED 2	indicator 2 (direction arrows) ON(0), OFF(1)	0 - 1	
	LED 3	indicator field 1 (priority travel) ON(0), OFF(1)	0 - 1	
	LED 4	indicator field 2 (overload) ON(0), OFF(1)	0 - 1	
	LED 5	indicator field 3 (fire service) ON(0), OFF(1)	0 - 1	
	LED 6	indicator field 4 (out of order) ON(0), OFF(1)	0 - 1	
	LED 7	car position and direction at indicator 1 YES(1), NO(0)	0 - 1	
	LED 8	2nd indicator-module (DIL-switch 8 is ON) NO(0), YES(1)	0 - 1	

653	value	brightness car indicator, standard = 7	0 - 15	

655	value	reassignment of inputs VA and ZSE to input SA2 (switch off control/light): 0 - VA=VA, ZSE=ZSE; 1 - VA=SA2(switching off control/light), ZSE=ZSE; 2 - VA=VA, ZSE=SA2	0 - 2	

floor indicator

656	LED 1	indicator 1 at all landings (car position, hall lantern, ..) ON(0), OFF(1)	0 - 1	
	LED 2	indicator 2 at all landings (direction, hall lantern) ON(0), OFF(1)	0 - 1	
	LED 3	indicator field 1 at all landings (priority) ON(0), OFF(1)	0 - 1	
	LED 4	indicator field 2 at all landings (occupied) ON(0), OFF(1)	0 - 1	
	LED 5	indicator field 3 at all landings (in-travel) ON(0),	0 - 1	

		OFF(1)		
	LED 6	indicator field 4 at all landings (out of order) ON(0), OFF(1)	0 - 1	
	LED 8	2nd indicator-module (DIL-switch 8 is ON) NO(0), YES(1)	0 - 1	

indicator selection at floor

657	LED 1	occupied(0), in travel(1)	0 - 1	
	LED 2	indicator 1: hall lantern (0), car in floor (1)	0 - 1	
	LED 3	indicator 2: direction (0), hall lantern (1)	0 - 1	
	LED 5	indicator 1: car position ON(0), OFF(1)	0 - 1	
	LED 6	indicator 1: hall lantern / car in floor ON(0), OFF(1)	0 - 1	
	LED 7	indicator 1: blinking occupied indicator OFF(0), ON(1)	0 - 1	
	LED 8	indicator 1: out of order ON(0), OFF(1)	0 - 1	

658	value	reassignment of inputs VA and ZSE to inputs FW and FW2 (fire service): 0 - VA=VA, VAL=VAL, ZSE=ZSE; 1 - VA=FW, VAL=FWL, ZSE=ZSE; 2 - VA=FW2, VAL=FWL, ZSE=ZSE; 3 - VA=VA, VAL=VAL, ZSE=FW; 4 - VA=VA, VAL=VAL, ZSE=FW2; 5 - VA=FW, VAL=FWL, ZSE=FW2	0 - 5	

659	value	addressing of floor independent character (addresses 660...667, car=0, sonst floor) or general (addresses 668 and 669, fortlaufende Numerierung 0...) adjustments	0 - 32	
660	value	main side floor X, indicator 1: character for car position	00 - FF	
661	value	main side floor X, indicator 2: character for car position	00 - FF	
662	value	main side floor X: Helligkeit	0 - 15	
663	LED 1	main side floor X: gong ON(0), OFF(1)	0 - 1	
	LED 2	main side floor X: car position ON(0), OFF(1)	0 - 1	
664	value	2nd-side floor X, indicator 1: character for car position	00 - FF	
665	value	2nd-side floor X, indicator 2: character for car position	00 - FF	
666	value	2nd-side floor X: Helligkeit	0 - 15	
667	LED 1	2nd-side floor X: gong ON(0), OFF(1)	0 - 1	
	LED 2	2nd-side floor X: car position ON(0), OFF(1)	0 - 1	

668, 669	value	659 -> 1=hall lantern DOWN, 2=hall lantern UP, 3=hall lantern UP and DOWN, 4=out of order, 8=occupied blinking, 10=car in floor, 11= direction DOWN, 12=direction UP	00 - FF	

ASCII - charactercodes

00=	01=	02=	03= ♥	04= ♦	05= ♣	06= ♠	07= •
08=	09=	0A=	0B=	0C=	0D=	0E=	0F=
10=	11=	12=	13=	14=	15=	16=	17=
18= ↑	19= ↓	1A= →	1B= ←	1C=	1D= ↔	1E= s	1F= t
20=	21= !	22= "	23= #	24= $	25= %	26= &	27= '
28= (	29=)	2A= *	2B= +	2C= ,	2D= -	2E= .	2F= /
30= 0	31= 1	32= 2	33= 3	34= 4	35= 5	36= 6	37= 7
38= 8	39= 9	3A= :	3B= ;	3C= <	3D= =	3E= >	3F= ?
40= @	41= A	42= B	43= C	44= D	45= E	46= F	47= G
48= H	49= I	4A= J	4B= K	4C= L	4D= M	4E= N	4F= O
50= P	51= Q	52= R	53= S	54= T	55= U	56= V	57= W
58= X	59= Y	5A= Z	5B= [	5C= \	5D=]	5E= ^	5F= _
60= `	61= a	62= b	63= c	64= d	65= e	66= f	67= g
68= h	69= i	6A= j	6B= k	6C= l	6D= m	6E= n	6F= o
70= p	71= q	72= r	73= s	74= t	75= u	76= v	77= w
78= x	79= y	7A= z	7B= {	7C= |	7D= }	7E= ~	7F= û

special characters

F6= [<F7= >]
F8= 2 triangles peek up and peek down
F9= 2 triangles peek to peek
FA= out of order box (left part)
FB= out of order box (right part)
FC= out of order (stop sign) inverted (left part)
FD= out of order (stop sign) inverted (right part)
FE= out of order (stop sign) (left part)
FF= out of order (stop sign) (right part)

encoder floor selector

700	value	position from encoder HIGH BYTE	00 - FF	
701	value	MIDDLE BYTE	00 - FF	
702	value	LOW BYTE	00 - FF	
703	value	encoder position for selected landing HIGH BYTE	00 - FF	
704	value	MIDDLE BYTE	00 - FF	
705	value	LOW BYTE	00 - FF	
706	value	selection of landing for address 703-705 and 707-708	0 - 32	
707	value	correction levelled position when car stops too high (mm)	0 - 100	
708	value	correction levelled position when car stops too low (mm)	0 - 100	
709	value	deceleration distance levelling speed -> 0 DOWN (mm)	0 - 100	
710	value	deceleration distance levelling speed -> 0 UP (mm)	0 - 100	
711	value	start of relevelling (mm)	0 - 100	
712	value	deceleration distance relevelling speed -> 0 DOWN (mm)	0 - 100	
713	value	deceleration distance relevelling speed -> 0 UP (mm)	0 - 100	
714	value	deceleration distance nominal speed DOWN (m)	0 - 100	
715	value	deceleration distance nominal speed DOWN (cm)	0 - 100	
716	value	deceleration distance nominal speed UP (m)	0 - 100	
717	value	deceleration distance nominal speed UP (cm)	0 - 100	
718	value	deceleration distance intermediate speed DOWN (m)	0 - 100	
719	value	deceleration distance intermediate speed DOWN (cm)	0 - 100	
720	value	deceleration distance intermediate speed UP (m)	0 - 100	
721	value	deceleration distance intermediate speed UP (cm)	0 - 100	
722	value	encoder prescaler (for 1000 p/rev = 3)	0 - 7	
723	LED 1	1= change direction of encoder	0 - 1	
724	value	indication levelled position (50 = levelled, < 50 upper, > 50 lower) in mm	0 - 100	

special functions

890	LED 1	special function 1 enabled NO(0), YES(1)	0 - 1	
	LED 2	special function 2 enabled NO(0), YES(1)	0 - 1	
	LED 3	special function 3 enabled NO(0), YES(1)	0 - 1	
	LED 4	special function 4 enabled NO(0), YES(1)	0 - 1	
	LED 5	enable remote control (SA2, FBI2-4) NO(0), YES(1)	0 - 1	
891	value	number of sending bytes mainboard -> I/O-boards special function 1	0 - 16	
892	value	number of sending bytes I/O-boards -> mainboard special function 1	0 - 16	
893	value	number of sending bytes mainboard - > I/O-boards special function 2	0 - 16	
894	value	number of sending bytes I/O-boards -> mainboard special function 2	0 - 16	

895	value	number of sending bytes mainboard -> I/O-boards special function 3	0 - 16	
896	value	number of sending bytes I/O-boards -> mainboard special function 3	0 - 16	
897	value	number of sending bytes mainboard -> I/O-boards special function 4	0 - 16	
898	value	number of sending bytes I/O-boards -> mainboard special function 4	0 - 16	

900	value	brightness of monitor display	0 - 15	

addresses 910-917 : real-time clock (only with buffered RAM)

910	value	year	0-99	
911	value	month	1-12	
912	value	day	1-31	
913	value	day of week 1=monday	1-7	
914	value	hour	0-23	
915	value	minute	0-59	
916	value	second	0-59	
917	value	calibration	0-63	

fault code trigger (since version V05.04)

918	value	faultcode where a trigger signal is generated (FTRIG)	0 - 99	

fault stack

999	value	no. of faults	0 - 99	
998	value	fault code of last error	0 - 99	
997	value	fault code of the error before	0 - 99	
...	value	and so on	0 - 99	
919	value	fault code of the oldest error	0 - 99	

types of errors, fault codes

20	reference top/bottom or floor selector error
21	levelled signal faulty
22	fault at counting pulse down
23	fault at counting pulse up
25	levelled position downwards overtravelled
26	levelled position upwards overtravelled
30	ZSE-switch faulty
33	reference value too high, encoder floor selector
34	reference switch defect, encoder floor selector
35	faulty adjustment, encoder floor selector
36	correction travel not done, encoder floor selector
37	encoder defect, encoder floor selector
40	final limit switch bottom overtravelled
41	final limit switch top overtravelled
42	final limit switch opened
43	safety circuit opened
44	door contact not closed during door close time (hinged doors or hinged door + autom. door = door close time x 4)
45	door lock contact cannot close
46	emergency stop with door contact
47	emergency stop with door lock contact
60	multiple errors from drive regulator, lift stopped
61	drive regulator, temperature too high
62	no pulses from encoder
63	wrong direction
64	setpoint/actual value difference too high
65	overvoltage intermediate circuit
66	undervoltage intermediate circuit
67	overcurrent intermediate circuit
70	pulse switch speed governor defect - since V05.03
71	anti creep device faulty - since V05.03
80	button is allways activated - since V05.03G
81	door doesn´t close (door lock contact)
82	door close / open time exceeded
83	fault at lightcurtain test
90	safety module faulty
91	running time error
92	motor temperature too high
93	relevelling time error
94	final limit switch top overtravelled (hydraulic)
95	V03-message error
96	reactivation safety module (zone switch is bouncing)