Thysseen Elevator Service MC2 Manual

Type PT For ThyssenKrupp elevator Inverter

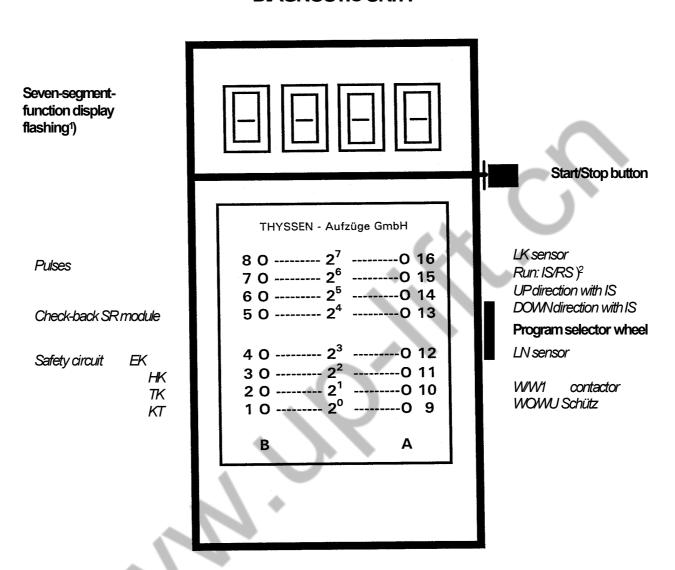
CPI Series Test CPIK Series Test

Operating Instructions Diagnostic Unit I Functions

<u>6510</u> Type

046 Type No.

DIAGNOSTIC UNITI



Altogether 16 functions can be interrogated or handled with diagnostic unit I. The individual functions can be set with the program selector wheel. The selected function appears in the seven-segment display (flashing display).

All functions will be described on the following pages:

TCI/TCM 1) Functions	Functio	0100 to 1400	Pages 145	(green)
Memory locations	ns	0000	Pages 123	(yello
Teach-in short instructions	Function		-	w)
Contro [©])	Function	1500	Pages 15	(orange)
Door operators	Function	0100, 1400, 1500	Pages 14	(orange)
Load-weighing device	Function	1300, 1400, 1500	Page	1
			(orange)	

¹⁾ With the 7-segement display flashing, the functions shown on the sides will be displayed by the light-emitting diodes in rows A and B.

³⁾ For detailed description of teach-in control functions please see MA part 13 6510.046.

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²⁾ IS ... Inspection operation, RS... emergency electrical operation

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Operating Instructions Diagnostic Unit I Functions

<u>6510</u> Type

as per: 05.00

046 Type No.

Diagnostic unit I for lift control TCI and TCM

Functions selectable for TCI with work program from version 04.86/3 for TCM with MC, MC1 and TCM MC2 control.

Functio	Designation	Description	<i>Page</i>
<u>n</u>			
	Functions	(green pages)	
	Error stack	Reading out error stack and event stack	3
	Order number display	Possible from work program version 06.88/6	23
0300	Position display	Car position indicator on 7-segment-display; LEDs are of no significance.	23
0400	Operation phase	The respective operation phase is indicated on 7-segment display and through LEDs.	24
0500	Memory locations	Display of important memory locations (car) through LEDs in rows A and B.	26
0600	Door locking device	Main door: display by LEDs in rows A and B	42
	Door locking device	Rear door: display by LEDs in rows A and B	42
	CPI parameter	Display of parameters CPI controller (only with TCM control)	42
	Car call	Giving car call for main door landings	44
0900	Landing calls	Giving DOWN calls (TU) – main door side	44
1000	Landing calls	Giving UP calls (TO)—main door side	44
1100	Carcall	Giving car calls for rear door landings	44
1200	Landing calls	Giving DOWNcalls (TU)—rear door side	44
1300	Landing calls	Giving UP calls (TO) - rear door side	44
1400	Version display and marking	Display of CPU work program version and display of issue date.	44
	flag	Display of MW1 work program version	
		Enter marking flag in error stack	
Part 2	Memory locations	(yellow pages)	
0000		Interrogation or display of specific memory locations	1-23
Part3	Teach-in short instructions	(orange pages)	1-5
1500	Control TCI/TCM	(for complete teach-in instructions please see MA part 13)	
1500	Door operator	(orange pages)	
	F2/1, F3, F4, F5, D6.C	Teach-in, event or error stack	1-4
1500	Load-weighing device	(orange pages)	
	LMS1	Teach-in Teach-in	1

Handling

- Plug the diagnostic unit I into respective board (CPU, door control, LMS1, etc.), a function display (flashing) must appear. Select the desired function with the program selector wheel.
- Switching from one function to another is only possible, if the seven-segment display is flashing.
- Aborting a selected function: turn program selector wheel by one step and then press start/stop button >2 s.
- In the teach-in function it is possible to abort teach-in through AF 00 (dF 00, bF 00) or by turning the main switch off and on.
- The following explanations and functional descriptions of diagnostic unit I apply to all work program versions from 04.86/3. The valid work programs applying to TCI/TCM control are specified in the respective Urgent Information.

Function 01 00 Display of error stack

1) Select function 01 00 with program selector wheel

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- 2) Press start/stop button; the code number of the error that occurred last will appear on the 7-display.
- 3) Pressing the start/stop button consecutively will cause the code number of the last-but-one, last-but-two error, etc. to be displayed.
- 4) To abort this function, turn program selector wheel one step further and press button longer than 2 s.
- 5) Set marking flag, if necessary (see function 14 00).

Example:

Error	Explanation	Weighting BW
<u>14 03</u>		4
	AA job-specific error message XX landing YY undefined NNexplanations from page 21 ZZ Number of marking flagB operation phase	N emergency stop S stopping M spontaneous message B lift blocked Significance: Frequency levels of error:
	Error code number	Level 1 infrequent Level 10 frequent

	Error code number	Lever 10 trequent		
Error	Error description	Causes, remedy or instructions	BW	
01 XX	Interlock contact RK or RKD is jamming in landing XX.	Check interlock contact or mechanical parts of door in landing XX. A correct door type must be programmed in the jobspecific program.	6	
02 01	Calls inhibited via monitoring	An 8-kbyte RAMis required in CPU.	1	
02 02	Quasi ZSE in lift-specific program released, but Siemens CPU still used.	Use Thyssen CPU with battery-backed RAM chip (storage of position in the event of power failure or if HS is switched off).		
02 03	TCM control	8 k-RAM not recognized; F8 00 will follow	1	
02 04	TCM control	8 k-EPROM not recognized; F8 00 will follow	1	
02 80	Undefined or wrong operation phase		1	
03 01	No provision has been madefor disconnect landing in lift-specific program.	Disconnect landing not programmed (check data sheet) or incorrect order number on lift-specific EPROM.		
03 02	No provision has been made for parking landing in lift-specific program.	Parking landing not programmed, etc., same as for error 03 01.		
03 03	No provision has been made for fireman's landing in lift specific program.	Fireman's landing not programmed, etc., same as for error 03 01.		
04 NN	TCI: error caused by solenoid switch ZSE.	TCI: CPU checks whether more than one ZSE switch is actuated. If so, the lift will be stopped and error 04 NN stored four times in succession. Check ZSE solenoid switch. Also see explanations from page 21.	_	

04	XX	TCM: error caused by soldenoid switch ZSE.	CPU checks whether more than one ZSE switch is	
		•	actuated. All landings XX with ZSE actuated will be	

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		displayed. Check ZSE solenoid switch, for example	
		fireman's lift.	
05 YY	Incorrect computer request by group (circuit board	TCI: Check circuit board MG or group connection	2
	MGdefective or fault in group connection).	(round cable or flat cable).	
		TCM: check group bus (MZ1 circuit board)	
		Software error: identify work program version and	
		subidentification (YY) and inform Thysser	
		Aufzugswerke department VTS!	
	Error of TCM lift controls		
05 XX	Special program error messages from TCM group.	Inform TU or VTS as soon as this error occurs.	-
	Will be output after errors indicated below!	XX = Data for detailed errordescription	
0542	Number of lifts of group and/or number of landings of group unacceptable.		-
05 53	Run telegram in incorrect group phase; 05 XX follows	Poor group connection of lift XXXX=lift number	-
05 A0	Group protocol incompatible	Same program version for all MZ1 circuit boards of the group.	-
05 A8	Group protocol and group control computer are	Check program version of MZ1 circuit board and	
	not compatible	group control computer	
	Error of TCM with destination selection control ((DCS)	
05 b0	DCS reset, : 05 XX will follow	ZES always performs. Check voltage supply and	-
	ZES = destination entry terminal	CAN connection to respective ZSE.	
		XX = concerned landing	
05 b1	Unexpected response from DCS: Hallo (=	XX = concerned landing	-
	initialization program: 05 XX follows		
05 b2	DCS send unexpected <i>ready</i> message (=	XX = concerned landing	-
	initialization terminated); 05 XX will follow		
05 b3	DCS initialization time-out, table start: 05 XX will	Failure to initialize destination selection control DSC	-
	follow	Check voltage supply and CAN connection to	
		respective ZSE.	
		XX=concerned landing	
05 b4	DSC initialization time-out, table end		-
05 b5	DSC-life-time-out; 05 XX will follow	No cyclical response from DSC. Check voltage supply	-
		and CAN connection to respective ZSE.	
		XX = concerned landing	
05 CO	Special run-RESET	RESETdue to timeout	-
	General errors		
06XX	Emergency stop after 3 unsuccessful locking	Check interlock contact or mechanical parts of door in	M2
	attempts in landing XX.	landing . XX (foreign objects). See also explanations	
		on page 21.	
07 01	TSO error – main door: TSO switch not actuated	TSO switch defective or incorrectly adjusted.	3
	within 30 s after giving TO command. TSO signal	Check!	
	will then be simulated by CPU, so that door can re-	Message that car door is unlocked is missing in lifts	
	dose after expiry of normal dwell time.	with car locking device.	
		Error may also be caused by door control, if TO	
		command is not executed.	

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07 02	TSO error – main door (also see 0b 04)	TSO signals car main door open, although TK (door	N1
01 02	(also see as 0.7)	contact) is closed. Results in RESET.	141
08 01	TSOD error – rear door	TSOD switch defective or incorrectly adjusted (same	1
0001	TOOD GITO TOOL GOOD	as error 07 01).	•
08 02	TSODerror – rear door	TSOD signals car rear door open, although TKTK	N3
00 02	TOOD GITO TOOL GOOD	(door contact) is closed.	140
09 NN	Blocking > 4 min: car is in a landing and fails to	Problem with door re-opening device; see function 05	M3
001414	start within 4 min. although commands or calls are	00 column 0d. The safety switch of hydraulic lifts may	1410
	present.	be tripped in governors with anti-creep device if the	
	processia	car lowers or the governor sheave is sluggish.	
		(Explanations from page 21).	
0A2F	Slack rope		
0A 30	Strop outside doorzone		
0A 31	Cardoor not dosed		
0A 32	Landing door not locked		
0A 33	Oiltemperature over 70°C		
0A 34	Oil level monitoring		
0A 46	Maintenance switch ON		
0A 47	Maintenance switch OFF		
0AAA	Job-specific error	Error envisaged by order processing clerk as possible.	2
0AXX	Teach-in error (shaft teach-in main door side; 0b	AA = error described in a list (erors to be clarified with	
	XX for rear side)	processing clerk).	
	Also see operating instructions for teach-in	If this error occurs during teach-in function AF0d or	
	(MA 13 6510.046)	AFOC, error 0AXX or 0bxx means that at landing	
		XX the landing number of MS2 board cannot be	
		assigned.	
0b 01	Error in light barrier – main door	Light barrier interrupted longer than time specified in	M2
		lift-specific EPROM; it prevents error 09 00 (error is	
		possible on disconnect control and light and TC	
01.00		program version up to 06.95).	1.10
0b 02	Error in light barrier – rear door	See error 0b01	M2
0b 03	Lift for group operation faulty for more than 1 hour	Error can only be entered for groups, if lift is not	M2
		involved in landing call answering. E.g. in priority,	
		occupied, etc. (software error; use TCI program	
Ol- O.4	TOO away magin dia ay	version from 06.95).	CN 40
0b 04	TSO error – main door	TSO switch signals car main door open after three	SM2
Ob OF	TCOD organ took door	resets, although door is closed.	CN 4O
0b 05	TSODerror – rear door	TSOD switch signals car rear door open, although door is closed.	SM2
0b 06	Earthquake active	Only with CPU MCx	SM1
50.00	TCN-(CAN) error (events) which are tripped by	•	JIVII
0C 01	CPU: MZ1 failed to understand table		S1
0C 02	CPU: MZ1 failed to understand table	Connection problems CPU to MZ1	S1
0C 03	CPU: MZ1 failed to understand table		S1
$\omega\omega$	OF U. IVIZ I I AIIEU IU UI IUEI SIAI IU IAIVIE		ા

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MZ1 MF3 fails to answer MZ1 MF3 fails to answer CANevents from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CANevents MC1/MC2/MC3 interface (CAC) CANL test: Clock divider tumbled down CANL test: RESET request from CAN controller CANL test: error in status register (EMC) CANL test: Output buffer overflow	More data has been read in than MF1 could process New initialization through MZ1 CAN test	- - - - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CANevents from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CANevents MC1/MC2/MC3 interface (CAC) CANL test: Clock divider tumbled down CANL test: RESET request from CAN controller CANL test: error in status register (EMC) CANL test: Output buffer overflow	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus) CAN controller is being initialized	- - - - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 Dfails to answer CANevents from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CANEVENTS MC1/MC2/MC3 interface (CANEVENTS MC1/MC2/MC3 interface) CANL test: Clock divider tumbled down CANL test: RESET request from CAN controller CANL test: error in status register (EMC)	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus) CAN controller is being initialized CAN controller is being initialized	- - - - - - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CANevents from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CANevents MC1/MC2/MC3 interface (CA) CANL test: Clock divider tumbled down CANL test: RESET request from CAN controller	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus) CAN controller is being initialized CAN controller is being initialized	- - - - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CAN events MC1/MC2/MC3 interface (CA) CANL test: Clock divider tumbled down CANL test: RESET request from CAN	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus) CAN controller is being initialized	- - - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CANevents from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Cocal buffer overflow MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CANevents MC1/MC2/MC3 interface (CA) CANL test: Clock divider tumbled down	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus) CAN controller is being initialized	- - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down CAN events MC1/MC2/MC3 interface (CA	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test ANL = local bus)	- - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus MZ1: Clock divider tumbled down	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1 CAN test	- - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus MZ1: Reset request in local bus	block – car bus - MF3 cal bus More data has been read in than MF1 could process New initialization through MZ1	- - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus MZ1: Overflow error in local bus	block – car bus - MF3 cal bus More data has been read in than MF1 could process	- - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local bus faulty MZ1: Transmission error in local bus	block – car bus - MF3 cal bus More data has been read in than MF1 could process	- - - - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow	block – car bus - MF3 cal bus More data has been read in than MF1 could process	- - - - - -
MZ1 MF3 fails to answer MZ1 MF3 Dfails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow	block – car bus - MF3 cal bus More data has been read in than MF1 could process	- - - - -
MZ1 MF3 fails to answer MZ1 MF3 fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local buffer overflow MZ1: Local buffer overflow	block – car bus - MF3 cal bus More data has been read in than	- - -
MZ1 MF3 fails to answer MZ1 MF3D fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow MZ1: Local buffer overflow	block – car bus - MF3 cal bus More data has been read in than	-
MZ1 MF3 fails to answer MZ1 MF3D fails to answer CAN events from NZ1 concerning the loc MZ1: Local buffer overflow	block-car bus - MF3 cal bus	-
MZ1 MF3 fails to answer MZ1 MF3D fails to answer CAN events from NZ1 concerning the loc	block-carbus-MF3	-
MZ1 MF3 fails to answer MZ1 MF3D fails to answer	block-carbus-MF3	-
MZ1 MF3 fails to answer		-
M71. Tologram from MEQ lock	<u> </u>	l
		-
MZ1: Overflow error in shaft bus		-
MZ1: Transmission error in shaft bus	MZ1 detects error to shaft	-
MZ1: Shaft bus faulty	New initialization through MZ1	N1
MZ1: Shaft buffer overflow		-
MZ1: Shaft buffer overflow		_
MZ1: Shaft buffer overflow	block shaft bus-car bus	
MZ1: Shaft buffer overflow	There may be connection problems MZ1 – terminal	_
MZ1: Shaft buffer overflow	Data for shaft/car cannot be read in.	
MZ1: Shaft buffer overflow		_
CAN events from NZ1 concerning shaft/o	car	
CPU: No CPI connection	Error F3 1C will follow	
CPU: Reset received from MZ1	MZ1 error, use program from V10	N1
CPU: timing error initial. of MF1	Initial. finished not received after 20 s	S1
G. G. a. i. i. i. g. a. i. a. i. a.	received	
		S1
		_
	FKZ = car accessories (e.g. door drive.	_
		_
		b _
	No acknowledge received from MF4 board, but MF4 is	-
		_
		_
CPU: Initial of local bus ref 1 ≠ actual 1	, , ,	_
CPO: Iniliai. OriviP reference 2 ≠ actual 2	• • • • • • • • • • • • • • • • • • • •	_
CDLIs Initial of MD reference 2 (certual 2		
CPU: Initial. of MP reference 1 ≠ actual 1		-
	b) Poor contact at bus plugs.	
CPU: Initialization of car reference ≠ actual	a) Lift-specific program not correct	-
	CPU: Initial. of MP reference 1≠ actual 1 CPU: Initial. of MP reference 2≠ actual 2 CPU: Initial. of local bus ref. 1≠ actual 1 CPU: Initial. of local bus ref. 1≠ actual 1 CPU: Initial. of MF4 ref. 1≠ act. 1 CPU: Initial. of MF4 ref. 1≠ act. 1 CPU: Initial. of MF4 ref. 2≠ act. 2 CPU: Initial. of MF4 ref. 3≠ act. 3 CPU: Initial. of MF4 ref. 4≠ act. 4 CPU: Initial. of FKZ ref. 1≠ act. 1 CPU: Iming error initialization of MZ1 CPU: timing error initialization of MZ1 CPU: Reset received from MZ1 CPU: No CPI connection CAN events from MZ1 concerning shaft/of MZ1: Shaft buffer overflow MZ1: Transmission error in shaft bus MZ1: Trelegram from MF3D lost	b) Poor contact at bus plugs. Check lift-specific EPROM (addresses) a) Number of MPboards wrong b) MPboards not coded correctly- c) Bus connection faulty Check lift-specific EPROM (addresses) CPU: Initial. of MP reference 2≠ actual 2 CPU: Initial. of local bus ref. 1≠ actual 1 CPU: Initial. of local bus ref. 1≠ actual 1 CPU: Initial. of IMF4ref.1≠ act.1 CPU: Initial. of MF4ref.1≠ act.1 CPU: Initial. of MF4ref.2≠ act.2 CPU: Initial. of MF4ref.3≠ act.3 CPU: Initial. of MF4ref.3≠ act.4 CPU: Initial. of FK2ref.1≠ act.1 CPU: Initial. of FK2ref.1 act.1 CPU: Initial. of FK

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0C 76	CANL test: O	utput buffer over	flow				-
	CAN events N	/C3 interface (C	:ANS=sh	aftbus)			
0C 78		lock divider tumk			CAN controller is being initialized		-
0C 7A	CANS test: O	verflow error sha	aft bus		Ŭ		-
0C 7b	CANS test: R	eset request in s	haft bus		CAN controller is being initialized		-
0C7C	CANS test: Ei	rror in status reg	jister		EMC		-
	CAN events fr	om MF3 or MF3	3D board ((main or	rear side)		
0C 80	MF3: Reset from	n MF3					-
0C 81	MF3: Telegram 1	from MZ1 lost					-
0C 85	MF3: Overflow 6		3		More data read in than MF3 could process		_
0C 86	MF3: Transmiss	ion error in shaf	t bus		MF3-CAN controller records faulty transmission		_
0C 87	MF3: Shaft bus	faulty				. 7	-
0C 88	MF3: Acknowled	dge with MF2 no	t possible		>56 HS with MF2 circuit boards; check!!		-
OC 89	MF3: CAN chip t	tumbled down	•		Reset request or Clock divider	~	-
0C8A	MF3: Initializatio	n error MF3					
0C A0	MF3D: Reset fro	m MF3D					-
0C A1	MF3D: Telegran	n from MZ1 lost					-
0C A5	MF3D: Overflow	error in shaft bu	US		More data read in than MF3D could process		-
0C A6	MF3D: Transmis		bus		MF3D controller records faulty transmissions		-
0C A7	MF3D: Shaft bus	s faulty					-
0C A8	MF3D: Acknowle		ot possible	е	>56 HS with MF2 boards; check!!	Î	-
0C A9	MF3D: CAN chip				Reset request or clock divider		-
0CAA	MF3D: Initialisat	ion error MF3D					-
	Door drive mail	nside					
0C d0	RESET			4			
0C d2	Error overflow of	f memory					
0C d3	Bus error						
0C d4	Bus interruption						
0C d5	Incomplete trans	smission					
0C d8	Runtimeerror	1					
0C d9	Watchdog			h			
0CdA	Overcurrent						
0Cdb	Overvoltage						
	Overtemperature	e-heat sink					
0Cdd	Overtemperature						
0CdE	No controller ena	_					
0CdF	F2/1: overtempe	erature housing					
	Door drive rear	side					
0C E0	RESET						
0CE2	Error overflow of	t memory					
0CE3	Bus error						
0C E4	Bus interruption						
0CE5	Incomplete trans	smission					
OC E8	Runtimeerror						
OC E9	Watchdog						
0CEA	Overcurrent						
0CEb	Overvoltage	- 14 -: 1					
0CEC	Overtemperature						
0C Ed	Overtemperature						
0CEE	No governorena						
0CEF	F2/1: overtempe	<u> </u>	Ī	Ι			
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<u>6510</u> Type 046 Type No.

	MZ1/CPU		
0CFF	CPU: unknown command from NIZ1	If this error occurs read out memory locations dE2F to dE3F by diagnostic unit 1 and send them to department VTS or QWS together with error stack. Attention: the specified memory locations will be cancelled with RESET!	-
	Reference-to-actual value monitoring 1)		
0d 1B	Reference-to-actual value monitoring MV1 (B=operating phase, applies to all 0d errors))	Pulses are missing (only in inspection or emergency electrical operation); CPU fails to detect pulses.	N
0d 2B	Pulse sequence monitoring: Channel Abefore B on UPrun	Pulses channel A and channel B mixed up. Correct pulse sequence is indicated on circuit board ESA (Iso 60) or NIM (Iso 25M).	Ν
0d 3B	Reference-to-actual value monitoring MW1 vst>vso⊥(+10%with vn; +100%withvn; +80%with vn; +50%with vns)	Error may occur as a consequence of a pre-ceding error, if the reference value is already 0 or emergency stopping and the actual value is still available.	
0d 4B	Reference-to-actual-value monitoring MW1 vsr <vsou (-10%with="" -100%with="" -50%with="" -80%with="" td="" v;="" vv;="" vvs)<=""><td>Error may occur in the event of bolt contact interruption (without 14 XX), with pulses missing, with reference-value voltage on board MW1 > 9.8 V, with acceleration too steep (actual value cannot follow), with control too sluggish; I-component to be increased, as the case may be.</td><td></td></vsou>	Error may occur in the event of bolt contact interruption (without 14 XX), with pulses missing, with reference-value voltage on board MW1 > 9.8 V, with acceleration too steep (actual value cannot follow), with control too sluggish; I-component to be increased, as the case may be.	
0d 5B	Reference-actual-value monitoring vst >vsou	Error, if vist > vi +10%	N
0d 6B	Controller amplifier at stop (with analog control only (e.g. Isostop 25M); not with digital control.	Set drive to within control range (not with digital control) Acceleration setting may be too steep, motor switched incorrectly, oil too cold!	N
0d 7B	Reference-value generator (MW1) non-level internally	Error occurs, if MW1 detects a non-level condition >3mm in terms of computation. It is possible that an error message will be produced, although car is level (software error up to 12.95). This occurs frequently as a consequence of a preceding error.	
0d 8B	Reference-value generator (MW1) zero-speed control vist > 0.25m/s	Board MW1 records a speed >0.25 m/s at standstill- cause: pulse generator also supplies pulses at standstill; interference signals on pulse line (screening).	
OF 22	TCVTCM General errors (continuation)		
0E 00	Faulty transmission from MW1 to CPU	T () 1	1
OF OA	Marking flag test switch ON	Test switch on circuit board MZor MZ1	- D+
0F0b	Evolution lift Modified floor TEL Footnice	Maintenance platform open	Reset
0F0C	Marking flag TEL Service	Service operation switched on	-
0F0d 0F0E	Marking flag TELEservice	Service operation switched off Test switch on circuit board MZ or MZ1	_
0F0F	Marking flag test switch OFF Evolution lift		
		Maintenance platform closed	Reset
0F <i>Z</i> Z	Marking flag set	ZZ=Flag No. (0 9 possible numbers) RESET will follow	- N1
10 YY	Fault in CPU boards	KESE I WIII IOIIOW	N

 $^{
m l}$) can be suppressed with switch 6S1 on circuit board MZ or with switch S5 on circuit board MZ1

/ can be	aubbrease	a with switting	051 011	CIICUIC DOAIG MZ OI	WICH SWICCH	33 On Circuit	DOALG	1121.	
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11 YY	Fault in MG board	Group input/output chip is faulty.	1
11 01	TCM: Fault in group CAN bus	Group CAN bus on MZ1 missing. Use MZ1 with group CAN bus.	
12 XX	Logical position is unequal to physical car position.	program in operation phase STOP.	3
13 XX	Position determined is unequal to actual car position.	See error 12XX	3
14 XX	Bolt contact RK open in landing XX	Bolt contact RK was interrupted during run. Cause door opening with emergency unlocking key; TSM or bolt magnet fails to push through fully; cam motor not adjusted correctly; cam or bolt cam grazing on bypassing.	
15XX	Logical position is unequal to physical position.	Error in floor counter program in operation phase STANDSTILL BEFORE RUN.	2
16 YY	MW/MW1 board: discrepancy as to position	Error occurs only in lifts with running-characteristic computer (circuit board MW/MW1).	3
17 YY	CPUerror – MW/MW1	Error only in lifts with circuit board MW/WV1 (storage overfilled)	N1
18 XX	Bolt contact RKD open in rear entrance landing XX	Bolt contact RKD was interrupted during run (same as error 14 XX).	N8
19 NN	Door zone not recognized (CPU fails to recognize landing vane, but stopping has been initiated).	Selector fails to signal door zone in operation phase STOP. Corresponds to representation of function 05 00, column 05 (see explanations on page 25).	
1A YY	Selector read error: LK sensor indicates incorrect synchronization: Should-be: DARK Actual: BRIGHT	Problems with LK sensor or landing vanes. Error may also occur with rope slip or controller vibrations! Pulse generator may be defective!	N8
1bYY	Selector read error: LK sensor indicates incorrect synchronization: Should-be: BRIGHT Actual: DARK	Problems with LK sensor or landing vanes. Error may also occur with rope slip or controller vibrations!	N5
1C NN	Undefined run	Run was initiated with no direction present.	4
1d YY	Emergency stop (incorrect run direction)	No or both run directions produced (see explanations on page 22).	N3
1ENN	On bypassing marked terminal landing vanes or inspection limit switches IFO/IFU not delayed	Bit 2ºup to 2ºcar position; Bit 2º(1) IFU actuated Bit 2º (1) IFO actuated NN is displayed in hexadecimal (see explanations on page 22).	3

CANerror MPboard (0MP up to 15MP)								
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Ī	Circuit board 0MP		
1F 00	Local bus interrupted		-
1F 01	Local bus error		-
1F 02	Local bus overflow		-
1F03	Input buffer overflow		-
1F 04	Circuit board overflow (reset) 1)		-
1F 05	No handshake telegram		-
	Circuit board 1MP		
1F 08	Local bus interrupted		-
1F 09	Local bus error		-
1F0A	Local bus overflow		-
1F 0b	Input buffer overflow		-
1F0C	Circuit board overflow (reset) 1)		-
1F 0d	No handshake telegram) ²)		-
	Circuit board 2MP up to 15MP	A .	
	Errors of MP boards 2MP up to 15MP are equivalent	to QMPand 1MPerrors indicated:	-
	2MP⇒1F10 up to 1F15		-
	3MP⇒1F18upto1F1d		-
	4MP⇒1F20 up to 1F26		-
	5MP⇒1F28upto1F2d		-
	6MP⇒1F30 up to 1F35		-
	7MP⇒1F38 up to 1F3d		-
	8MP⇒1F40 up to 1F45		-
	9MP⇒1F48 up to 1F4d		-
	10MP⇒1F50 up to 1F55		-
	11MP⇒1F58 up to 1F5d		-
	12MP⇒1F60 up to 1F65		-
	13MP=>1F68 up to 1F6d		-
	14MP⇒1F70 up to 1F75		-
	15MP⇒1F78 up to 1F7d		-
	FIS interface circuit board TCM control - control	ler (in controller API)	
1F 80	Local bus interrupted		-
1F81	Local bus error		-
1F 82	Local bus overflow		-
1F83	Input buffer overflow		-
1F84	FIS: Reset	Emergency stop and RESET will be triggered (MC1)	N1
1F 85	FIS: external contactors 2 x loss of		-
	handshake ²)		
1F86	FIS: external contactors failure of cyclical telegram		N1
1F 87	FIS: internal error		_

2) Handshake is defined as cyclical data exchange (telegram) between two data carriers.

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¹⁾ Dependenton the function involved, reset can either mean emergency stop following by adjusting run or stopping of the lift installation

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	Events from ME1/MQ1 circuit board		
1F 88	ME1: Local bus interrupted		-
1F 89	ME1: Local bus error		_
1F8A	ME1: Local bus overflow		_
1F8b	ME1: Input buffer overflow		_
1F8C	ME1: Reset		_
1F 90	MQ1: Local bus interrupted		_
1F91	MQ1: Local bus error		_
1F 92	MQ1: Local bus overflow		_
1F 93	MQ1: Input buffer overflow		_
1F 94	MQ1: Reset		-
	Events on MH3 circuit board		
1FA0	MH3: Local bus interrupted		-
1FA1	MH3: Local bus error		-
1FA2	MH3: Local bus overflow		-
1FA3	MH3: Input buffer overflow		-
1FA4	MH3: Reset		-
1FA5	MH3:2x wrong handshake from MH3 ²	* X C	-
1FA6	MH3: failure of cyclical telegram from controller to		-
	MC1/MC3 board		
1FA7	MH3: Internal error in MH3 board		-
1FA8	MH3: Reset after safe state		-
	Error stack TCI/TCM control		
20 TT	SR module error	Check-back time to CPU, if bridging is activated.	-
		TT=hexadecimal number multiplied by 50ms	
		Same as error 23 00.	
21 00	EEPROMerror (chip 28C64)	Memory locations defective in EEPROM chip	S1
22 00	SR module error (resolution >100 ms)	Error SR module resolution: 100 ms after interruption	N4
		of channel I by CPU, the check-back from SR module	
00.00		to CPU still exists.	
23 00	SR module error 1)	Same as error 43 00, but without stopping (not	8
04.00	ODI LEEDDOMALAS AS AS	permissible in Germany).	01.40
24 00	CPU: EEPROMdefective	Memory locations in EEPROM defective.	SM3
	Button check	Replace EEPROMor CPU.n	
25 02	Landing call button defective	DOWNcall main side blocked	
25 04		UP call main side blocked	-
25 20	Landing call button defective Landing call button defective	DOWN call rear side blocked	-
25 40	Landing call button defective	UP call rear side blocked	-
2040	Evolution lift (lift without machine room)	OI CAILLEAL SILE NOONEU	-
26 04	Evolution lift	Travel limiter is jamming or input maintenance	MS
2004	Maintenance platform open and travel limiter	platform is defective. No run command possible ;	IVIO
	dosed	error message after 3 s. Lift will be stopped in all	
		operating phases except for inspection.	
26 05	Evolution lift	Travel limiter and counterweight collide or trave	MS
2000	Maintenancde platform closed and travel limiter	limiter is being closed; only emergency electrical	
	neither open nor closed:	operation DOWN is permissible. Error message after	
		3s.	
	1		

1) SR module can be masked out via teach-in mode function AF 0d. Running-open operation and re-levelling with door open is not possible.

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26.06	Evolution lift	Transition state traval limitar anana ar traval limitar	I IC
26 06		Transition state, travel limiter opens or travel limiter switch defective; no run commands possible. Lift will	MS
	Maintenance platform open, travel limiter neither open nor closed	be stopped in all operating phases except for	
	•	inspection.	
26 07	Evolution lift	Switch defective; no run commands possible. Error	MS
	Maintenance platform open and travel limiter	message after 3 s and the lift will be stopped.	
	open and closed		
26 08	Evolution lift	Switch defective; no run commands possible. Error	MS
	Maintenance platform open and travel limiter open and closed	message after 3 s and the lift will be stopped.	
26 09	Evolution lift	Check-back to SR1 module activated despite normal	MS
		lift operation	
26 0A	Evolution lift	Check-back to SR1 module is missing if topmost	
	Oi	landing cannot be reached (travel limiter active)	
07107	Circuit board MC1/MC2/MC3	Ind. 11 DEO	N #0
27 XX	Error only with TCM lift controls with MC1 or MC2	Monitoring input or RFS module (relay flat pit)	MS
	circuit board	defective	
	(XX=meaning see supplementary description <i>flat</i> pit MA12 6510.062)		
28 00	Fault during underrun		N
28 4X	Underrun longer than 30 s		N
28 8X	Underrun UP longer than 30 s		N
29 XX	Collapsible car apron defective		MS
29 00	Car apron folded although safety circuit is open		MS
29 10	Unsuccessful underrun activation three times in		MS
04.00	succession	N	
2A 00	TMI contactor acknowledge	New-old: 00 00	
2A 11	TMI contactor acknowledge	New-old: 01 01	
2A 12	TMI contactor acknowledge	New-old: 01 10 New-old: 10 00	
2A 20	TMI contactor advantedge		
2A 21	TMI contactor advandedge	New-old: 10 01	
2A 22 2A 32	TMI contactor acknowledge TMI contactor acknowledge	New-old: 10 10 New-old: 11 10	
2A 32 2A 33		New-old: 11 11	
2h 33 2b 00	TMI contactor acknowledge	INCW-OID. II II	
2000	Start interlocking in operating phase STANDSTILL for longer than 60		
	s priase STANDSTILLIOLOIGE HEITO		
	Error 2C 00 to 2F 00 with MC1 sub-code positio	n <i>XX</i>	
2C 00	Error in plausibility check	The states of sensors LK and LN will be checked on	5
	(LK/LN sensors on re-levelling)	re-levelling. The constellation LK = bright and LN =	•
	,	dark in the UP direction and LK = dark and LN = bright	
		in the DOWN direction must not occur. Causes:	
	_	excessive re-levelling speed; LK/LN spacing too small	
		(new teach-in required, if a change is made).	
2d 00	Fault in SR module	Check-back to CPU is faulty during re-levelling.	N2
		Causes: check zone switch ZS; check KTK!	
2E 00	Re-levelling time >7s (increased to ≤ 20s from	Cause: re-levelling speed too low; basic volume set	N2
	work program 02.96/26)	incorrectly with hydraulic lifts, it takes too long until	
		car starts moving.	

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2F00	Re-levelling distance >4 raster units	Re-levelling distance is too long (4 raster units with standard landing vane = 8cm).	N1
30 00	Selector read error (emergency stop during adjusting run)	Cause: code of landing vane not recognized during adjustment. Teach-in required (shaft teach-in).	N2
31 00	LK sensor error 1)	Check LK sensor	-
32 00	LK sensor error ¹)	Check LK sensor	-
33 00	LK sensor error ¹)	Check LK sensor	-
34 00	LK sensor error ¹)	Check LK sensor	-
35 00	Ex selector error ²) 04.98	Landing vane departure hook not recognized (check LK sensor).	2
36 00	Ex selector error ²)	Level window sensing is dark (check LK sensor and landing vane – selector with proximity initiators).	2
37 00	Ex selector error	ZSE switch is not actuated in STOP operation phase.	2
3b 00	Level window errror (in landing vane) ²)		-
3C 00	LK sensor error (read error)	Landing vane code does not agree with value taught in teach-in. Emergency stop only on levelling, no emergency stop on by-passing. Causes: LK sensor bounces; traction too low (ropes slipl over traction sheave); slip in pulse generator (hydraulic lifts); disturbing pulses on LK line; landing vane dirty.	N4
3d 00	LK sensor error (landing vane)	Arrival code is unequal to departure code in landing vanes (error can only occur on by-passing)	-
3E 00	Fault in anti-creeep device (governor enable)	MAS magnet picks up, but switch on governor fails to open. Cause: switch on governor defective; locking pawl on governor is jamming (if engaging lever rests on ratchet wheel, the stroke of the magnet is relatively small). Remedy: place two washers each (6 mm) between magnet and mounting plate. With MC1: error occured after switching on. Error eliminated from version V46.06.	SM3
3F00	Fault in anti-creep device (governor inhibit)	Magnet is deactivated,, but switch fails to open. Cause: switch is defective; timing block contactor ZSP setting is too long, governor fails to block.	SM3
40 00	Alarm actuated	Release is job-specific.	-
41 00	Fault in run monitoring device (missing pulses)	Run monitoring device of CPU is tripped (absence of pulses >4 s in traction lifts and >8 s in hydraulic lifts). Causes: pulse generator defective; check pulses with Iso16M (with diagnostic unit); basic volume may be incorrectly set with hydraulic lifts.	SM1

42 00		Too long creep at levelling and adjusting run speed: no bright and dark change in LK sensor for >20s with wand>45swith v.	SM3
43 00	Fault in SR module (no bridging of locking device	Check-back to CPU faulty. Causes: SR module defective, ZS switch defective; penetration depth of	SM8

¹⁾ Error from TCl work program 03.89/7 – no longer used.

²⁾ Error 35 00 and 3b 00 can no longer occur from work program 02.87/4 and error 36 00 can no longer occur from 06.95/25.

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	switches) 1)	ZS switch and/or LK sensor into landing vane not	
	, ,	correct.	
44 00	Fault in SR module (stopping only in lowest landing with hydraulic lifts)	Same as 43 00 and 44 00 if error occurs in upper landings; 44 00 only if error occurs in lowest landing Reason: as soon as an error occurs in hydraulic lifts, a return to the lowest landing must follow.	
45 00	Emergeny stop button operated	In Norway version only (see data sheet).	N
46 00	Repair switch ON	Available only to customer's specification (dat a sheet)	-
47 00	Repair switch OFF	Available only to customer's specification (data sheet)	_
48 00	Ready-again message	Lift is ready for operation again after spontaneous message.	N
49 00	Operation phase ADJUSTING RUNlonger than default value (5 min)	Check why adjusting run cannot be performed within 5 min.	M2
4A 00	Communication between CPU and MWor MW1 faulty	Circuit board MW/MW1 (path computer) in higher- quality drives is defective.	N2
4b 00	Path computer MW/MW1: logical car position unequal to real position	Circuit board MW/MW1 failed to recognize ar identification hook. Cause: run following ar emergency stop was a normal run (not adjusting run).	
4C 00	Path computer MW/WW1: in test mode	Close bridge S9 on circuit board MW/MW1.	-
4d 00	Path computer MW/MW1: not ready for use	Circuit board MW/MW1 requires RESET from CPU.	N2
4E 00	Path computer MW/MW1:	Communication (RST5.5) to path computer defective	-
4F 00	Contactor check-back to CPU (reference-to-	Wrong contactor check-back on adjusting run or	SM2
	actual comparison of contactors)	number of unsuccessful adjusting run attempts.	
50 00	Collective error for stopping with revival with TCM control	Causes: TCM errors 0C 01, 0C 02, 0C 03, 0C 042), 0C 11, 0C12 occur (problems with initialization).	SM2
51 00	Run monitoring	Absence of pulses >4 s	N2
52 00	Adjusting run after emergency stop	Adjusting run followed emergency stop without RESET	-
53 00	Run following adjusting run	Run followed adjusting run (emergency stop).	-
54 00	Fault CPU (interrupt watchdog)	Computer fault CPU	-
55 00	RESET (=re-start))	RESET causes program re-start (after main switch OFF/ON or after power-supply-induced voltage interruption). Causes: %V voltage not correctyl set; power supply voltage not stable, etc.	
55 01	Re-start MC2 group	24 V DC was disconnected	
	Processor failures of MC1/MC2 circuit board (Cl	PU)	
56	Non-defined interrupt		N
56 00	Divide error exception		
56 01	Trace interrupt		N
56 02	Non maskable interrupt		N
56 03	Breakpoint Interrupt		N

¹⁾ SR module can be masked out through teach-in-mode function AF0d. N Runnin-open operation and re-levelling with open door not possible. 0C

2) 04 to 0C 0C leads also to stopping, if not provided otherwise in the lift-specific EPROM!

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56 04	INTO dedected overflow exception]	N
56 05	Array bounds exception		N
56 06	Unused opcode exception		N
	(4 x error 89 00 will follow)		
56 07	Escape opcode exception	ATTENTION!!	N
56 08	Timer 0 inerrupt	Error codes 56 00 to 56 FF	N
56 09	AMD reserved interrupt	Processor-fault messages acc. to data sheet	N
56 0A	DMA0orINT5	Replace CPU and inform department	N
56 0b	DMA1 or INT6	VTSorQMS	N
56 0C	INTO	110014110	N
56 0d	INT1		N
56 0E	INT2		N
56 0F	INT3		N
56 10	INT4		N
56 11	Asynchronus serial port 0 interrupt		N
56 12	Timer 1 interrupt		N
56 13	Timer 2 interrupt		N
56 14	Asynchronus serial port 1 interrupt	* X * .	N
56 FF	Undefined software interrupt		N
	(56 20 to 56 FF)		
	Processor failures of MC circuit board (CPU E60	,	
56 00	Fault CPU (TRAP)	Computerfault CPU	-
57 00	ADJUSTING RUN	Adjusting run entry made after emergency stop and a	-
		preceding error.	
58 00	EMERGENCY STOP	Emergency stop after certain errors	-
59 00	STOPPING in the event of EMERGENCY STOP	Lift will be stopped, if the error which leads to	
		EMERGENCY STOP is entered in the lift-specific	
		program.	
		Addresses: A570 to A57F (16 error codes can be	
	CPU-MWMW1 circuit board communication	entered; also compare part 3 <i>memorylocations</i>)	
5A 00	CPU-MW/MW1 error	MW/MW1: fails to signal readiness for service	SM2
5b 00	CPU-MWMW1 error	MW/MW1: fails to signal readiness to service MW/MW1: fails to request telegrams after TCL RESET	SM2
3000		101 PESET	JIVIE
5C 00	CPU-MW/MW1 error	MW/MW1:no read port interrupt after telegram	SM2
		transmission	
5d 00	CPU-MW/MW1 error	MW/MW1: telegram not understood	-
		once (repetition)	
5E 00	CPU-MW/MW1 error	MW/MW1: telegram not understood twice (no	SM2
		repetition)	
5F 00	EK error (EK=limit stop contact)	Stopping in lowest landing will follow after EK error	MB

	Safety-circuit		
60 00	Safety circuit: terminal EK open	Cause: EK is interrupted during run (not with adjusting run). In some devices, e.g. Isostop 60 (API) also on release of controller monitor, because monitoring contact lies before EK.	
61 00	Safety circuit: terminal HK open	Locking contact HK or safety-gear contact FK open	Ν
62 00	Safety circuit: terminal TK open	Car door contact KTK or KTKD was interrupted	Ν

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				during run.	
63 00	Safety circ	cuit: termin	al KT open	Bolt contact RK or RkD was interrupted during run.	N
64 00		of temper	rature monitoring device of	PTC thermistor or PTC thermistor connector (thermal contact) tripped. Check!	MN
	Sensing	the state o	of the power contactors picke	ed up/dropped out 1)	
	Contact	tor state		Explanations: state of contactors	
	REF.	ACT.		REFERENCE-ACTUAL	NSM4
65 00*	00	00		00 11	
66 00	00	01			
67 00	00	10		Run contactors / \ \ Run contactors	
68 00	00	11			
69 00	01	00			
6A 00*	01	01			
6b 00	01	10		Directional contactors Directional contactors	
6C 00	01	11		* X	
6d 00	10	00	1	ntactors is output by the CPU.	
6E 00	10	01	The ACTUAL state of contac	tors must assume the REFERENCE state of contactors	
6F 00*	10	10	within 500 ms; if not emerge	ncy stop will follow.	
70 00	10	11			
71 00	11	00		Meaning: 0 contactor dropped out	
72 00	11 11	01		1 contactor picked up	
73 00 74 00*	11	10 11		* no error (REF. = ACTUAL)	
7400				(also see error 4F 00)	
75.00	MQcircu		ICT alafa af ia	75.004.70.00	0
75 00			KT defective	Applies to errors 75 00 to 78 00:	2
76 00			TK defective	Check respective sensors and/or MQ/MQ1-	
77 00 78 00			HK defective EK defective	circuit boards and, if necessary, replace them.	
7800			TCI) and MZ1 (TCM)	Check function 05 00 with diagnostic unit 1!	
79 00	_	ue sensor		Charly temperature manitaring concer replace MZ	
1900	remperati	ue sei isoi	uelective	Check temperature monitoring sensor; replace MZ board, if necessary.	-
7A 00	Monitoring	g sensor of	controller defective	Check monitoring sensor, replace MZ board if	-
				necessary.	
7b 00			oltage supply	Check voltage supply (also on MQ circuit board).	MBS
7C 00	CPI controller disconnects although run command exists.			Error only with CPI controller with external reference setting (check inernal monitoring functions of controller)	N5
	Events in	CPI cont	roller		
7dxx	CPI: even	t xx			
7d 00*	CPI: no er	rror			
7d 01	CPI: contr	ol voltage	ON		
7d 02	CPI: watchdog error				
7d 03	CPI: SMR				
7d 04		Rto TCM cc			
7d 05	CPI: EEPI	ROM error			

 1) If errors 65 00 to 74 00 occur more than 3 times, error 4F 00 will follow afterwards, which leads to spontaneous message and stopping

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Operating Instructions Diagnostic Unit I Functions

<u>6510</u> Type

7406 CPt: overtemperature heat sink 7407 CPt: overtemperature drive motor 7408 CPt: earth fault message 7409 CPt: power part not recognized 740A CPt: ZK undervoltage (ZK = DClink) 740B CPt: guise enable of power part effective 740C CPt: ZK overvoltage (ZK = DClink) 740C CPt: ZK overvoltage (ZK = DClink) 740C CPt: Error stack deleted 740F CPt: mains overvoltage 740F CPt: mains overvoltage 7410 CPt: me error in DSP 1) 7411 CPt: strip e error in DSP 1) 7411 CPt: error No. 18 (not used currently) 7412 CPt: error No. 18 (not used currently) 7413 CPt: CANbus error 7414 CPt: overdunequalwef± 10% 7415 CPt: error of current controller DSP 1) 7416 CPt: DSP reset 1) 7417 CPt: unknown signal to DSP 1) 7418 CPt: wrong No. of reference-value telegram 7419 CPt: uncontactor problems 7419 CPt: uncontactor problems 7410 CPt: surce set 7411 CPt: use set 7411 CPt: use set 7412 CPt: error failure 7414 CPt: buse generator failure 7415 CPt: pulse generator failure 7416 CPt: pulse generator failure 7417 CPt: uncontactor problems 7418 CPt: wrong No. of reference-value telegram 7419 CPt: uncontactor problems 7419 CPt: uncontactor problems 7410 CPt: pulse generator failure 7411 CPt: brake error 7412 CPt: error of innos-generator 7415 CPt: brake error 7416 CPt: brake error 7417 CPt: brake error 7418 CPt: overtemperature motor or brake 7419 CPt: error of sincos-generator 7410 CPt: pulse generator failure 7410 CPt: brake error 7411 CPt: brake error 7412 CPt: error of sincos-generator 7415 CPt: brake error 7416 CPt: serror failure 7417 CPt: brake error 7418 CPt: serror failure 7418 CPt: serror failure motor or brake 7419 CPt: error of sincos-generator 7410 CPt: pulse generator failure 7417 CPt: brake error 7418 CPt: serror failure error from MH3, if xx = 00FF 7486 MC3; failure of cyclical telegram to CPt 7487 MH3; internal error from MH3, if xx = 00FF				
7d 08	7d 06	CPI: overtemperature heat sink		
7d 09 CPI: power part not recognized 7d 0A CPI: ZK undervoltage (ZK = DClink) 7d 0b CPI: ZK undervoltage (ZK = DClink) 7d 0c CPI: ZK overvoltage (ZK = DClink) 7d 0d CPI: Error stack deleted 7d 0C CPI: mains overvoltage 7d 10 CPI: mains overvoltage 7d 11 CPI: ±15V or 24 V undervoltage 7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CANbus error 7d 14 CPI: act unequaliver ± 10% 7d 15 CPI: error of current controller DSP 1) 7d 16 CPI: DSP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: unknown signal to DSP 1) 7d 19 CPI: unontactor problems 7d 10 CPI: unontactor problems 7d 11 CPI: error during pulse generator calibration 7d 11 CPI: unontactor of current controller CRID (CPI: DISP error CRID (CPI: DISP e	_			
7d 0A CPI: ZK undervoltage (ZK = DClink) Inquiry through parameter-entry panel 7d 0b CPI: pulse enable of power part effective 7d 0C CPI: ZK overvoltage (ZK = DClink) 7d 0C CPI: ZK overvoltage (ZK = DClink) 7d 0C CPI: covercurrent 7d 0F CPI: mains overvoltage 7d 10 CPI: time error in DSP 1) 7d 11 CPI: ±15V or 24 V undervoltage 7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CANbus error 7d 14 CPI: vacua unequalvier ± 10% 7d 15 CPI: error of current controller DSP 1) 7d 16 CPI: DSP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: une contactor problems 7d 10 CPI: provertemperature motor or brake 7d 11 CPI: provertemperature motor or brake 7d 12 CPI: brake error 7d 15 CPI: pulse generator failure 7d 16 CPI: brake error 7d 17 CPI: pulse generator failure 7d 18 CPI: vane set 7d 19 CPI: pulse generator failure 7d 10 CPI: pulse generator failure 7d 11 CPI: provertemperature motor or brake 7d 12 CPI: pregeneration unit not ready 7d 18 MC3: CPI controller reset 7d 20 CPI: reror of sin-cos-generator 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: reror of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 86 MC3: failure of cyclical telegram to CPI 7d 87 MC3: NH3: internal error from MH3; if xx = 007F MC3:				
7d 0b CPI: pulse enable of power part effective 7d 0C CPI: ZKovervoltage (ZK = DClink) 7d 0d CPI: Error stack deleted 7d 0F CPI: overcurrent 7d 0F CPI: mains overvoltage 7d 10 CPI: time error in DSP 1) 7d 11 CPI: ±15V or 24 V undervoltage 7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CANbus error 7d 14 CPI: varian qualivref ± 10 % 7d 15 CPI: error of current controller DSP 1) 7d 16 CPI: bSP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: varian signal to DSP 1) 7d 19 CPI: varian signal to DSP 1) 7d 10 CPI: varian signal to DSP 1) 7d 11 CPI: varian signal to DSP 1) 7d 12 CPI: unknown signal to DSP 1) 7d 15 CPI: unknown signal to DSP 1) 7d 16 CPI: bsP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: varian signal to DSP 1) 7d 19 CPI: unknown signal to DSP 10 7d 10 CPI: pulse generator railiure 7d 10 CPI: pulse generator failure 7d 11 CPI: pulse generator failure 7d 11 CPI: buse generator failure 7d 11 CPI: buse generator failure 7d 11 CPI: vareemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 12 CPI: regeneration unit not ready 7d 18 MC3: 2x loss of handshake 2) from CPI 7d 16 MC3: 2x loss of handshake 2) from CPI 7d 16 MC3: failure of cyclical telegram to CPI 7d 16 MC3: failure of cyclical telegram to CPI 7d 16 MC3: failure of cyclical telegram to CPI 7d 16 MC3: failure of cyclical telegram to CPI				
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7d 0F CPI: mains overvoltage 7d 10 CPI: time error in DSP 1) 7d 11 CPI: ±15V or 24 V undervoltage 7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CAN bus error 7d 14 CPI: vact unequal vref ± 10 % 7d 15 CPI: error of current controller DSP 1) 7d 16 CPI: DSP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: une contactor problems 7d 10 CPI: vane set 7d 11 CPI: error during pulse generator calibration 7d 11 CPI: pulse generator failure 7d 11 CPI: pulse generator failure 7d 11 CPI: brake error 7d 11 CPI: brake error 7d 11 CPI: brake error 7d 12 CPI: trop of sin-cos-generator 7d 15 CPI: regeneration unit not ready 7d 18 MC3: 2x loss of handshake ③ from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI N1 TEXX MH3: internal error from MH3, if xx = 007F MC3:	_	CPI: Error stack deleted		
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7d 11 CPI: ±15V or 24 V undervoltage 7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CANbus error 7d 14 CPI: vact unequal wef ± 10 % 7d 15 CPI: error of current controller DSP ¹) 7d 16 CPI: DSP reset ¹) 7d 17 CPI: unknown signal to DSP ¹) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: run contactor problems 7d 10 CPI: vane set 7d 11 CPI: vane set 7d 12 CPI: pulse generator calibration 7d 11 CPI: pulse generator failure 7d 11 CPI: successful pulse generator calibration 7d 11 CPI: successful pulse generator calibration 7d 11 CPI: successful pulse generator calibration 7d 11 CPI: varial error 7d 12 CPI: run of sin-cos-generator 7d 15 CPI: regeneration unit not ready 7d 21 CPI: regeneration unit not ready 7d 21 CPI: regeneration unit not ready 7d 38 MC3: CPI controller reset 7d 38 MC3: failure of cyclical telegram to CPI 7d XX MH3: internal error from MH3, if xx = 007F MC3:	7d 0F	CPI: mains overvoltage		
7d 12 CPI: error No. 18 (not used currently) 7d 13 CPI: CANbus error 7d 14 CPI: vact unequalvref ± 10 % 7d 15 CPI: error of current controller DSP 1) 7d 16 CPI: DSP reset 1) 7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: run contactor problems 7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 86 MC3: failure of cyclical telegram to CPI N1 TExx MH3: internal error from MH3, if xx = 007F MC3:	7d 10	CPI: time error in DSP 1)		
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7d 14 CPt-vactunequal/vref± 10% 7d 15 CPt: error of current controller DSP¹) 7d 16 CPt: DSP reset ¹) 7d 17 CPt: unknown signal to DSP¹) 7d 18 CPt: wrong No. of reference-value telegram 7d 19 CPt: run contactor problems 7d 1A CPt: vane set 7d 1b CPt: vane set 7d 1b CPt: pulse generator calibration 7d 1C CPt: pulse generator failure 7d 1d CPt: successful pulse generator calibration 7d 1E CPt: brake error 7d 1F CPt: overtemperature motor or brake 7d 20 CPt: error of sin-cos-generator 7d 21 CPt: regeneration unit not ready 7d 84 MC3: CPt controller reset 7d 85 MC3: 2x loss of handshake ²) from CPt controller 7d 86 MC3: failure of cyclical telegram to CPt N1 TExx MH3: internal error from MH3, if xx = 007F MC3:	7d 12	CPI: error No. 18 (not used currently)		
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7d 16 CPI: DSP reset ¹) 7d 17 CPI: unknown signal to DSP ¹) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: run contactor problems 7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 24 MC3: CPI controller reset 7d 25 MC3: 2x loss of handshake ²) from CPI controller 7d 26 MC3: failure of cyclical telegram to CPI 7d 86 MC3: failure of cyclical telegram to CPI 7d XX MH3: internal error from MH3, if xx = 007F MC3:	7d 14	CPI:vactunequalvref± 10%		
7d 17 CPI: unknown signal to DSP 1) 7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: run contactor problems 7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 28 MC3: CPI controller reset 7d 86 MC3: failure of cyclical telegram to CPI 7d XX MH3: internal error from MH3, if xx = 007F MC3:	7d 15	CPI: error of current controller DSP1)		
7d 18 CPI: wrong No. of reference-value telegram 7d 19 CPI: run contactor problems 7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 28 MC3: CPI controller reset 7d 86 MC3: failure of cyclical telegram to CPI 7d XX MH3: internal error from MH3, if xx = 007F MC3:	7d 16	CPI: DSP reset 1)		
7d 19 CPI: run contactor problems 7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 17	CPI: unknown signal to DSP 1)		
7d 1A CPI: vane set 7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 18			
7d 1b CPI: error during pulse generator calibration 7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 19	CPI: run contactor problems		
7d 1C CPI: pulse generator failure 7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 1A	CPI: vane set		
7d 1d CPI: successful pulse generator calibration 7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 1b	CPI: error during pulse generator calibration		
7d 1E CPI: brake error 7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 1C	CPI: pulse generator failure		
7d 1F CPI: overtemperature motor or brake 7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake 2 from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:				
7d 20 CPI: error of sin-cos-generator 7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset N1 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 1E	CPI: brake error		
7d 21 CPI: regeneration unit not ready 7d 84 MC3: CPI controller reset N1 7d 85 MC3: 2x loss of handshake 2) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:		CPI: overtemperature motor or brake		
7d 84 MC3: CPI controller reset 7d 85 MC3: 2x loss of handshake ²) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	_			
7d 85 MC3: 2x loss of handshake ²) from CPI controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:	7d 21			
controller 7d 86 MC3: failure of cyclical telegram to CPI 7Exx MH3: internal error from MH3, if xx = 007F MC3:		MC3: CPI controller reset		N1
7d 86 MC3: failure of cyclical telegram to CPI N1 7E xx MH3: internal error from MH3, if xx = 007F MC3:	7d 85	MC3: 2x loss of handshake 2) from CPI		
7E xx MH3: internal error from MH3, if xx = 007F MC3:				
				N1
MH3 error recognized by MC3, if xx = 80FF	7Exx			
		MH3 error recognized by MC3, if xx = 80FF		

7E 01	MH3: error during writing to EEPROM	Reset request from MH3 to MC3.	
7E 02	MH3: modem not recognized during connection	Send error stack (incl. identification) to department	
	setup	VTS at Thyssen Aufzugswerke Neuhausen, if these	
7E 03	MH3: search for modem repeated	errors often arise !!!	
7E 04	MH3: switching over from slave to master		
7E 05	MH3: error during writing to EEPROM		

¹⁾ DSP is the digital signal processor in the CPI controller

²⁾ Handshake is defined as cyclical data exchange (telegram) between two data carriers.

Prepared by: Keinz		Date of-		Changes:		
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<u>6510</u> Type

7E 06	MH3: error during writing to EEPROM	1	
7E 07	MH3: error during writing to EEPROM		
7E 08	MH3: DOS download request		
7E 09	MH3: re-set of original state		
7E 0A	MH3: error during writing to EEPROM		N 14
7EA4	MC3: reset from MH3		N1
7E A5	MC3: 2xwrong handshake ¹⁾ from MH3		
7E A6	MC3: failure of cyclical telegram to MH3		N1
7E A7	MC3: reset after save state	Through request from MH3	N1
80 00	Wrong car command	Command DOWN with car positioned in lowest landing.	N1
81 00*	Wrong car command	Command UP with car positioned in upper landing.	N1
82 00*	Undefined car position	* Newteach-in required; if unsuccessful	N3
83 00*	Undefinied car position	check 5 V voltage supply of CPU	
84 00*	Undefined car position	EEPROMon CPU may be	
85 00*	Undefined car position	defective.	
86 00	Brake checking circuit tripped (from TCl work program 06.95/25)	Check setting of brake checking sensors. Monitoring can be masked out via teach-in function 1500 (via AF 0d in teach-in mode). Automatic monitoring release it switch is disconnted.	MINS
86 01	Brake to be disconnected through safety circuit	defective.	MNS
	TC/TCM Newerrors from 12.08.96		
87 PP		ogram not permissible for the path computer MW1. The ined on the basis of the variables PP (e.g. $87.04 =$	
87 01	Ratedspeed vn	Explanation:	-
87 02	Maximum speed voon	The memory locations for deceleration etc.	-
87 03	Acceleration a	are not programmed or not programmed	-
87 04	Deceleration –a	correctly. In this case, the lift-specific program	-
87 05	Jerk	must be made available by the order pro-	-
87 06	Jerk 1	cessing department in re-programmable form,	-
87 07	Jerk 2	stating the error code number.	-
87 08	Jerk 3	The memory locations concerned can be -	-
87 09	Jerk 4	interrogated on the spot in the lift-specific	-
87 0A	Adjusting run speed Vu	program with diagnostic unit I.	-
87 0b	Re-adjusting speed vva	Also see 4) MEMORY LOCATIONS	-
	7 0 1	Diagnostic function 00 00.	_
87 OC	Inspection speed vi	Blagi locati lai locati loc do:	
88 00	Inspection speed vi Brake disk does not run true	Response of monitoring circuit for running true	SM1

	Error with CPU	circuit board Mo	C1				
89	Wrong operation 1. Byte: code s 2. Byte: code s 3. Instructions 4. Instructions	egment high egment low Pointer high	ent high street low substantial street low (Total ter low)		Will follow error code number 56 xx and will be stored 4x in succession. Read out error stack with sub-code xx and contact department VTS or QMS (Thyssen Aufzugswerke).		
8A	Parameter provious outside of permis				Error can only occur during initialization.		
Prepared by: Date of- Chang Keinz		Change	S:				
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<u>6510</u> Type

10404			
8A 01	Acceleration		-
8A 02	Deceleration		-
8A 03	Brake application time		-
8A 04	Jerk (general)		-
8A 05	1. jerk		-
8A 06	2. jerk		-
8A 07	3. jerk		-
8A 08	4. jerk		-
8A 09	Acceleration pre-control		-
8A 0A	Gain factor		-
8A 0b	Rated speed		-
8A0C	Inspection speed		_
8A 0d	Adjusting run speed		-
8A 0E	Re-levelling speed		-
8A 0F	Reduced overtravel upper threshold		-
8A 10	Reduced overtravel lower threshold		-
8A 11	Creeping speed		-
8A 12	Creep distance	* X * .	_
	TCI/TCM errors (cont'd from page 17)		
90 00	Speed >0,5 m/s with safety circuit bridged	Explanation:	N2
		Safety circuit is bridged by SR module and CPU	
		detects v >0,5 m/s. Possible cause: pulse generator,	
		at standstill, supplies pulses which wrongly pretend a	
		run.	
91 00	Car is not positioned within a zone with safety	Explanation:	N2-
	circuit bridged	Safety circuit is bridged by SR module and CPU	
		detects that the floor vane zone is missing.	
		Possible causes: by seesaw movement of car with	
		hydraulic lifts; if car comes to stop short of the zone	
		(e.g. rope slip) or in case of overtravel.	
92 00	V>0,3 m/s in operation phase STOP or	Possible causes:	N6
	STANDSTI	Pulse generator, particularly type Wachendorf	
	LL	supplies pulses at standstill. Pulse generator	
		improved from 11.95. Speed will not longer be	
00.00		monitored at standstill from TCl work program 06.95.	
93 00	Re-levelling speed >0,2 m/s	Re-levelling speed is > 0.2 m/s in operation phase	N6
04.00	-	STOPorSTANDSTILL	01.44
94 00	Tripping of speed monitoring device	Monitorrespondsat w+10%; job-specific activation is also	SM1
		possible (instead of 10% switch on governor).	

95 00	Response of monitoring device of controller	Fault in controller:	MN2
	(Isostop 16M, Isostop 25M, Isostop 60 (API/CPI),	Temperature monitoring	
	variable-speed hydraulic lift with <i>Beringer</i> valve	 Phase sequence and phase failure monitoring 	
	block)	device	
		 Ref./actual-value monitoring device (Beringer) 	
		 Controller at stop, etc. 	
		 API/CPI see error stack parameter entry panel. 	
99 00	Path computer MW1: speed monitoring	Operation phase errors 00, 01 and 04, if v > 0,3 m/s.	N1

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<u>6510</u> Type

9A 00	Safety circuit is bridged by SR module and v	Operating phase error 03, if v > 0.5 m/s.	N1
<i>3</i> A00	>0.5 m/s is signalled to circuit board MW1.	Operating priase end 05, if \$ > 0.5 m/s.	INI
9b 00	Monitoring of inspection / electrical recall speed	Operating phase error 07, if	N1
05 00	The mening of inspection of discussions are special	v>0,63 m/s (EN81)	141
		v >0,4 m/s (Russia).	
9E 00	Deceleration monitoring third track:	Check light barrier	MS1
02 00	Light barrier defective	on coving it carries	11101
9F 00	Deceleration monitoring third track:	Used in high-speed lifts with buffers with reduced	N1
0. 00	Deceleration monitoring tripped	buffer stroke	• • •
b0 00	Operation phase error	Selector failed to find a correct operation phase.	N3
	Codes for correct sequence checking between o		
	Run direction: C?00 = DOWN direction / d?00 =		
C000	Acceleration/deceleration too steep in near	Set acceleration/deceleration less steep on MD/	N1
d000	landings	MD1 board. Teach-in!!	
C100	Changed installation response	Deceleration point is near the landing vane	N1
d100		identification hook. Set acceleration / deceleration	
		less steep. Teach-in!!	
C200	Changed installation response	Discontinuation of acceleration is not within the	N1
d200		acceleration range. Same as error C1 00/d1!	
C300	Changed installation response	Reference/actual deviation too large (car too fast ?)	N1
d300		Same as error C1 00/d100!	
C400	Changed installation response	Same as error C3 00/d300!	N1
d400			
C500	MD/MD1-CPU signal exchange error	Fictitious acceleration discontinuation point	N1
d500		deceleration point or stopping point already passed.	
		Pulse generator defective or slip; reduce acceleration.	
		Teach-in.	
C600	MD/MD1-CPU signal exchange error	Car between two zones. Fictitious points in the zone	N1
d600		left last. Error same as C5 00/d5 00.	
C700	MD/MD1-CPU signal exchange error	Path actual value correction has been made. Same as	-
d700		error C5 00/d5 00!	
C800	Range of values exceeded, if AF13 and AF20 not	Perform teach-in!	-
d800	programmed in teach-in mode.		
C9 00	TCM control - MD1 circuit board		N.I.
d9 00	DOWN/no run direction UP		N N
CA 00	DOWN/no run direction		N
dA 00	UP		N
Cb00	DOWN/no run direction		N
db00	UP		N
CC00	DOWN/no run direction		N
dC00	UP .		N
Cd00	DOWN/no run direction		N
dd 00	UP		Ν
CE00	DOWN/no run direction		N
dE00	UP		N
	Power-up test (errors which are interrogated on	ly on powering on the control)	
E000	Error on reading back	EEPROMon CPU defective; replace it; check 5 V	SM1
E100		voltage supply	
E200	Test of cross-checksum not correct (BCC original	Replace EEPROM; perform new teach-in.	SM1
E3 00	-BCC backup) Test of cross-checksum not correct (BCC original	Replace EEPROM; perform new teach-in.	SM1
L) (U	Trestor dossarianzarianio maren (por original	ropiace LLF (Volvi, periori i i i i evi teati Hi i.	JIVII

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<u>6510</u> Type 046 Type No.

E400			
	Storage error	RAMin CPU is defective	-
E500	Backup block: cross-checksum test incorrect –		-
	backup block restored.		
E600	Original block: cross-checksum test incorrect –		-
	backup block restored.		
E7 00	Current test of cross-checksum - RAM incorrect.		N1
E8 00	Uppermost landing ist reduziert auf die unterste Haltestelle	Maintenance platform open with lift with 2 landings.	S1
E8 01	Top landing is ZERO	Perform teach-in AF10; number of landings must be stored in job-specific program (dummy landings, too).	S1
E9 00	Overflow error	Calculation of AF71 (reduced overtravel) or AF74 (advance speed disconnection) leads to overflow of memory locations in memory chip. Remedy: perform teach-in AF10, AF19, AF0d, AF71 and AF73.	S1
EAxx	MC3: unknown error xx to peripheral equipment		
Eyy Ex	Memory locations xxyy in EEPROM defective	Insert new EEPROMon CPU.	-
F0 00	Communication error MZ1 CPU	Tripped by errors: 0C 01, 0C 02, 0C 03, 0C 10, 0C 11, 0C 12	MS1-
F1 00	Communication error MZ1 car e.g. MF3MF4 circuit board	Tripped by errors: 0C 04, 0C 09, 0C 0A, 0C 0b, 0C 0C	MS1
F2 00	Communication error MZ1 car-accessories e.g. LSM1, F2	Tripped by errors: 0C 0d, 0C0E,	MS1
F3 00	Communication error MZ1 local bus e.gMP board	Tripped by errors: 0C 05, 0C 06, 0C 07, 0C 08	MS1
F4 00	OCerror with stopping	Errors which are not defined in F0 00 F3 00.	MS1
F8 00	8k RAWEEPROM not detected	Early error 02.03 or 02 04	MS1
Fb 00	Teleservice code	Message generated by Teleservice device (not included in TCI/TCM error stack)	
Fd 00	MC1: Flash data error (BCC-Checksumme)	Teach-in-data in RAM copy range are OK.	-
Fd 01	MC1: RAM-error of copied data	Teach-in-data in flash memory are OK.	
Fd 0F	Flash data error	Error in lift-specific data range	-
Fd FA	Order-specifc EPROM not present	Lift-specific program to be loaded!	
FE00	MC1: Flash data error (BCC checksum)	Teach-in- lost; completely new teach-in data	MS1

Explanations of the existing error code numbers

04 NN TCl control – Interrogation of ZSE solenoid switches

NN is represented as a hexadecimal number, in the event of errors, it indicates the number of ZSE switches (no other than the ZSE switch of the car position may be actuated).

04 00 applies to ZSE 25 to ZSE 31 04 00 applies to ZSE 17 to ZSE 24 04 00 applies to ZSE 9 to ZSE 16

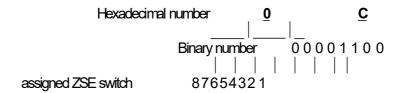
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<u>6510</u> Type 046 Type No.

04 0C applies to ZSE 1 to ZSE 8

Example: **04 0 C**



The example shows that ZSE switches ZSE3 and ZSE4 (in 3. and 4. landing) have been activated. (Also compare hexadecimal code in part 4, page 2)

04 NN TCM control – Interrogation of ZSE solenoid switches

If ZSE switches are closed in the third and fourth landing, the TCM control will file two errors: und 04 03 04 04

06 XX TCl control – Door locking not possible (from work program version 08.91/9)

The lift will be put out of service for 15 min. after 3 unsuccessful door locking attempts. A new locking attempt will be initiated after expiry of this period of time.

XX=Standort

Door variant – hinged door:

A new locking attempt will also be made within these 15 min. after opening of the landing door (TK open) and closingit again (TK closed).

Door variant D4 (with mechanical locking device)

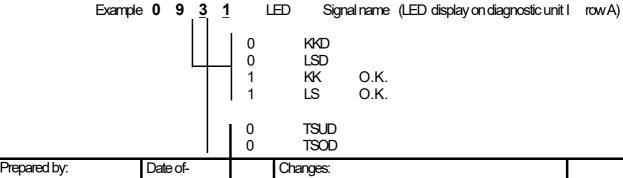
A start attempt will be enabled within 15 min., as soon as the control receives the bolt contact.

06 XX TCM control – Door locking not possible

If open bolt contact is recognized in the command chain preceding the position the following error will follow 14 XX (XX = bolt contact main side)

18 XX (XX = bolt contact rear side)

09 NN Car will be blocked in the landing >4 min



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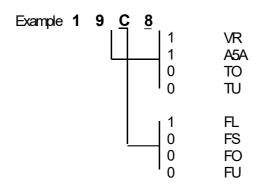
	651	C
٦	\/n=	

046 Type No.

O TSU
1 TSO activated

For LEDs and signal names see Operating Instructions of Diagnostic Unit I, function 05 00, column 0d (display of predefined memory locations, from page 25).

19 NN Doorzone not detected



In the operation phase STOP (lift at standstill), the CPU recognizes that the door zone calculated from the landing vanes was left.

For LEDs and signal names see Operating Instructions Diagnostic Unit I function 05 00, column 05 (display of predefined memory locations, from page 25)

1d NN Emergeny stop (wrong run direction)

No run direction or both run directions were produced with the run contactor activated and the brake disengaged.

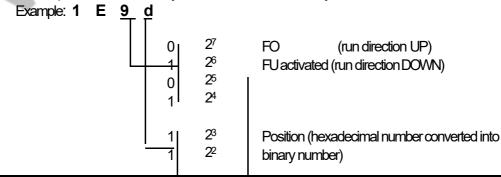
For LEDs and signal names see Operating Instructions, Diagnostic Unit I, function 05 00, column 05 (display of predefined memory locations from page 25).

In case of error 1d C8 the processor outputs the signals VR, A5A and FL (but without run directions); compare above representation of error $19\,NN$

1E NN Deceleration not effective Binary display of car position

It will be examined whether deceleration has been initiated already on reaching the marked terminal landing vanes.

The position is indicated by the five bitst 20 to 25 as binary number.



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6510 Type

046 Type No.

21 0 20 1

1 E 9 d: bits 20 to 27 stand for landing 29, therefore only run direction UP exists, since 26= 0 and 27= 1, and consequently 9 d will follow.

Function 02 00 Display of order number (fromTCI work program version 06.88/6 and with TCM)

- 1) Select function 02 00 with program selector wheel.
- 2) Press button: the first four figures of the order number will appear on the 7-segment display; LED 5 in row B and LED 12 in row A will light simultaneously.
- 3) Shift the order number to the left by operating the program selector wheel until the next four figures appear; LED3 in row B and LED10 in row A will light.
- Operate program selector wheel for further shifting to the left until the last four figures of the order 4) number appear, LED 1 in row B will light simultaneously.
- 5) Exit: press start-stop button for longer than 2 s.

Example: Order No.: 2770064210 LED 5123101

Function 03 00 Position indicator (decimal)

- 1) Select function 03 00 with program selector wheel.
- 2) The respective car position will be displayed as a decimal number.
- 3) Exit: press start-stop button for longer than 2 s.

Function 04 00 Operation phase

- Select function 04 00 with program selector wheel and press start-stop button 1)

			-segment displa	ay wili indicat	ie:				
XX		Operation pha							
	XX	Operation phase check word							
00		Operation pha	se POSITION						
00	00	O.K.							
00	01	No destination a	available						
00	02	Door not closed	b						
00	03	Door unlocked							
00	04	Operation phas	se after stop						
00	05	Operation phas	se stop						
00	06	Safety circuit b	ridged						
00	07	Start interlock (start interlocki	ng)					
00	80	M3TK door ope	n						
00	09	Doors are closi	ng						
00	0A	MZ-/MZ1 test s	witch on, prior	to error 0F	0A, see page 8				
00	0b	Governor free							
00	0	Re-levelling op	eration is activ	<i>'</i> e					
00	С	Temperature m	nonitoring resp	onded					
00	0d	Monitoring of α	•						
00	0E	Maintenance pl	latform/travel	limiter resp	onded (Evolution)				
00	0F	Hydrauliic lift in limit switch							
	10								
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00	111	Reduced pit: collapsible apron to be folded up by activated underrun
00	12	Lift at standstill and blocked by additional functions (such as cleaners (in case of selection control ZWS))
01		Operation phase POSITION BEFORE RUN
	00	O.K.
02		Operation phase RUN
02	00	O.K. (normal run)
02	01	Parking run interrupted
02	02	Parking run
03		Operation phase DECELERATION
03	00	O.K.
03	01	Program run
03	02	Parking call present
03	03	No call or command present
04		Operation phase STOP
04	00	O.K.
04	01	Main door not lockable
04	02	Door contact TK open
04	03	Rear entrance door not lockable
04	04	Rear entrance door not lockable Door X not lockable Main door is opening
04	05	Main door is opening
04	06	Rear entrance door is opening
04	07	Run direction is reserved
04	08	Minimum dwell time
04	09	Anti-creep device cannot be activated
04	0A	Slip opening active
05		Operation phase EMERGENCY STOP
05	YY	Operation phase check word (not defined)
06		Operation phase ADJUSTING RUN
06	00	Control has been re-started and, thus, all memories set to 00
07		Operation phase INSPECTION OPERATION
07	00	Inspection operation or emergency electrical operation switch was actuated
07	01	No inspection operation button (UP or DOWN) has been pressed Inspection
07	02	or emergency electrical operation switch is not actuated
07	03	Safety circuit HK nodal point signals O.K.
08		Operation phase STOPPING
08	YY	Operation phase check word (not defined)
09		Operation phase UNDEFINED POSITION
09	YY	Operation phase check word (not defined)
В.	-	

Function 05 00 Display of specified memory locations

- Set function 05 00 with program selector wheel
- 1) 2) Press start-stop button
- 3) Select desired column in 7-segment display with program selector wheel Example: Column 0d is desired. For example, select 0C 0d in 7-segment display, then left LED row B applies to column 0C and right LED row Aapplies to column 0d, etc.
- Interrogate LED display (compare overview and signal description) 4)

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Exit: press start-stop button for longer than 2 s. 5)

The LEDs listed in the table will light on selecting the respective column (Col): (Attention: free positions are not assigned)

Col	ĽЕD	Signal	Inputs/Outputs and States	Notes
01			Not assigned	
)2			Zone	SRTUEV
	27	SW	Software zone	
	26			
	2 ⁵	v<0,5m/s	Less than speed threshold v = 0,5 m/s	
	24			
	23	v<0,3m/s	Less than speed threshold v = 0,3 m/s	
	2 ²			
	21			
	20	SR-Modul	Output channel 1 SR module	
03			Adjusting run (only displayed with FV drive)	JUFAN
	27			
	26			
	2 ⁵			
	24			
	23	JFL	Contactor L picked up	
	2 ²	JFS	Contactor S picked up	
	21	JFO	UP-contactor picked up	
	20	JFU	DOWN-contactor picked up	
04			Stored run direction	FARI
	27			
	26			
	25			
	24			
	23			
	2 ²			
	21	FO1	Stored run directionUP	
	20	FU1	Stored run direction DOWN	
05			Power part output word 1	FARIL
	27	VRVRR		
	26	A5A	Flashing indicator (will not be evaluated)	
	25	TO	Door-open command main door (will turn off, if door-open time has elapsed)	
	24	TU	Door closing command main door (will turn off, if RK contact is closed)	
	23	FL	Contactor L (FV)W contactor (controlled drives) activated	
	22	FSMRB	Contactor S (FV)/brake magnet (Isostop 16M)activated	
	21	FO	Current run direction UP	
	20	FU	Current run direction DOWN	
06	07		Power part output word 2	
	27	AL	Disconnection of control and light (effective after all car command have been	1
	26		answered)	1
	2 ⁶	TOD	Demonstrate de la Maria del Maria de la Maria de la Maria del Maria de la Maria dela Maria de la Maria de la Maria dela Maria	1
	2 ⁵	TOD	Door-open command rear entrance door (will turn off, if door-open time has	
	24	TI ID	elapsed)	1
	27	TUD	Door closing command rear entrance door (RKD contact –	
			same as	
Prem	red by:		r Dateitofmain door) Changes:	'
Kein:		· I	ji baansantialiidoot) johaliyos.	1
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<u>6510</u> Type

Ī	2 ³	NS	Selection of emergency power relay	
·	2 ²	NAV	Selection of start interlocking relay	
	21		l and the same of	
	20	v<0,3m/s	Output channel 1 SR module	
07			Doortime	INFBI
	27			
	26			
	2 ⁵			
	24	TOZ	Total door opening time (from beginning of opening to end of closing operation)	
	2 ³			
	2 ²			
	21			
	20			
08			Car	INFB2
	27			
	26			>
	25		+ X -	
	24			
	23	BE	Car occupied (effective only with control type 6510/	
	2 ²			
	21			
	20			
09			Fireman's functions	INFB3
	27			
	26			
	25			
	24			
	23	FWI	Fireman's operation car call was given	
	2 ²	FW	Additional feature fireman's control is active (fire sevice)	
	21			
	20			
0A			Not assigned	INFB4
0b				
	27	TSP	Door locked (door locking switch on circuit board MZ operated)	
	26	THE	Temperature monitoring main motor O.K. (1 = OK)	
	25	AL1	Switch input disconnection control and light actuated	
	24	SWG	Collecting fault signalling - controller (1 = OK)	
	23	RU	Car call given to lowest landing	
4	22	V	Priority switch on MZ/MZ1 activated	
	21	RO	Car call given to uppermost landing	
	20	Z(D)	Test switch MZ/MZ1 activated	

0C				KBEW1
	27	υT	Door dosing button main side (TCM only)	
	26	FW	Additional feature fireman's control is active (fire service)	
	25	ZTK	Intermediate door contact closed (TCI only)	
	24	ÜB	Overload device activated	
	2 ³	KL	Car empty (load <5% with load-weighing device)	

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	2 ²	ТОТ	Door-open button actuated for main door (in car)	
	21	В	Car occupied (response of occupied device)	
	20	V	Priority switch in car activated	
04		V	Phoney Switch in Car activated	KDEWO
0d	07	1440	A.f. data dia any anta-transfer and any dia and	KBEW2
	27	KKD	Articulated lever contact – rear entrance door - dosed	
	26	LSD	Light barrier etc. rear entrance door (turns off on interruption)	
	25	KK	Articulated lever contact – main door - dosed	
	24	LS	Light barrier, protective edge, pressure-wave contact main door (turns off on interruption)	
	2 ³	TSUD	Door-dosed acceptance rear entrance door	
	2 ²	TSOD	Door-open acceptance rear entrance door	
	21	TSU	Door-closed acceptance main door	
	20	TSO	Door-open acceptance main door	
0E				KBEWD1
	27	UT	Specific additional features have been actuated with TCI (with TCM: UTD): Key switch actuated for barring specific landings Door closing button actuated Peak traffic switch operated	
	26	FW	Additional feature fireman's control is active (fire service)	
	25	ZTK	Intermediate door contact closed	
	24	ÜB	Overload device actuated	
	23	KL	Car empty (load <5% with load weighing device)	
	22	OTD	Door-open button actuated for rear entrance door (in car)	
	21	В	Car occupied (response of occupied device)	
	20	VD	Priority switch in car activated in selective door control rear entrance door side	
0F			Same as for 0d	KBEWD2
	27	KKD	Articulated lever contact – rear entrance door - dosed	
	26	LSD	Light barrier etc. rear entrance door (turns off on interruption)	
	2 ⁵	KK	Articulated lever contact—main door- closed	
	24	LS	Light barrier, protective edge, pressure-wave contact main door (turns off on interruption)	
	2 ³	TSUD	Door closed acceptance rear entrance door	
	2 ²	TSOD	Door open acceptance rear entrance door	
	21	TSU	Door dosed acceptance main door	
	20	TSO	Door-open acceptance main door	
10			Car output word 1	KBAW1
	27	ZIZ	Forced door closing command (slow closing speed)	
	26	FWA	Fireman's operation indicator in car is activated	
	²⁵	FWH	Fireman's operation hom is actuated	
	24	ÜBA	Overload indicator	
	23	J.	- Consider in Mississi	
	22	NA	Emergency power indicator in car	
	21	IW \		
	20	SF	Special run indicator	
11	+	JF		KBAWD
11			Not assigned	
12	07		Destination is displayed in binary code	ZIELO
	27			
	2 ⁶			
	2 ⁵	X		I

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	24	Х		
	23	Х		
	2 ²	X		
	21	Х		
	20	Х		
13			Destination exists	ZIELJN
	27			
	26			
	25			
	24			
	23			
	22			
	21			
	20	ZV	Destination exists	4 -
14		 		LTLCW1
Ī	27	LK	Sensor selector	
	26	IS/RS	Inspection operation /emergency electrical operation switch on	+
	25	ISO	Inspection operation in UP direction	
	24	ISU	Inspection operation in DOWN direction	
	23	LN	Sensor re-levelling (not displayed during run)	
	22		Set so re-evening (not displayed during ruin)	
	21	WW1	Contactors shock hads (nidsed LID)	
	20		Contactors - check-back (picked up)	
45	Z°	WOWU	Contactors – check-back (picked up)	LTLOW/
15			Not assigned	LTLCW
16	07			LNHCW
	27			
	26			
	25			
			I Chook book CD modulo	
	24	SR-RM	Check back SR module	
	23	EK	Final contact closed (safety circuit)	
	2 ³ 2 ²	EK HK	Final contact closed (safety circuit) Locking contact closed (safety circuit)	
	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit)	
	2 ³ 2 ²	EK HK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Car door contacts closed (safety circuit)	
17	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned	LSKCW
18	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned	LNHCW
	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned	
18	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned	LNHCW
18 19	2 ³ 2 ² 2 ¹	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ
18 19 1A	2 ³ 2 ² 2 ¹	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	2 ³ 2 ² 2 ¹ 2 ⁰	EK HK TK	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	2 ³ 2 ² 2 ¹ 2 ⁰	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	2 ³ 2 ² 2 ¹ 2 ⁰ 2 ⁷ 2 ⁶ 2 ⁵	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	2 ³ 2 ² 2 ¹ 2 ⁰ 2 ⁷ 2 ⁶	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	23 22 21 20 27 26 25 24 23	EK HK TK KT Zone	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	23 22 21 20 27 26 25 24 23 22	EK HK TK KT Zone	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A	2 ³ 2 ² 2 ¹ 2 ⁰ 2 ⁷ 2 ⁶ 2 ⁵ 2 ⁴ 2 ³ 2 ² 2 ¹	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A 1b	23 22 21 20 27 26 25 24 23 22	EK HK TK KT Zone	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Car position is displayed in binary code	LNHCW TOEZ TOEDZ KSTND
18 19 1A	23 22 21 20 27 26 25 24 23 22 21 20	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Not assigned	LNHCW TOEZ TOEDZ
18 19 1A 1b	2 ³ 2 ² 2 ¹ 2 ⁰ 2 ⁷ 2 ⁶ 2 ⁵ 2 ⁴ 2 ³ 2 ² 2 ¹	EK HK TK KT	Final contact closed (safety circuit) Locking contact closed (safety circuit) Door contacts closed (safety circuit) Cardoor contacts closed (safety circuit) Not assigned Not assigned Not assigned Car position is displayed in binary code	LNHCW TOEZ TOEDZ KSTND

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	2 5			
	24			
	23			
	2 ²			
	21	Х		
	20	X		
1d			Port check word A4	PCWA4
	27	MBV	Anti-tampering device (with telenot and TELEservice equip. only)	Only with TCI
	26	VÜ	Reduced overtravel (set speed is exceeded)	,
	2 ⁵		, , ,	
	24			
	23			
	2 ²	SM	Collective fault signalling control and drive motor	
	21	AVO	Anti-creep device/emergency stop system	4 -
	20	ABA	Out-of-service indicator: - Safety circuit interrupted - Inspection run - Lift is at standstill (e.g. by AL = disconnection control and light - Lift blocked by emergency power set - Thermal contact (main motor) tripped	
1F			Port check word A6	PCWA6
	27	EO	Travel continuation indication UP is displayed (TCI)	
	26	EU	Travel continuation DOWNis displayed (TCI)	
	2 ⁵			
	24	F <u>eMa</u> 1)	Additional feature error trace (TCM)	
	23			
	2 ²			
	21			
	20		7 7	

Extension of columns for TCM control with MC1 or MC2 circuit boards

1) Error marking

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ol	LED	Signal	Inputs & States	Notes
20			Absolute position of ZSE switch (binary with MC1/MC2	ASTND
	27		` ` •	
	26	Х		
	2 ⁵	Х		
	24	Χ		
	2 ³	Χ		
	2 ²	Χ		
	21	Χ		
	20	Χ		
21			Pulses channel A Low-Byte 1)	
22			Pulses channel A High-Byte 1)	1
23			Pulses channel B Low-Byte 1)	
24			Pulses channel B High-Byte 1))
25			Additional inputs on MZ1 - Evolution	MZ1ZE
	27	<u> </u>		†
	26		Check back Relay-Flat-Pit (RFS)	1SPL:b12 MC2-X40:2
	2 ⁵		Check back SR1 module (Evolution)	1SPL:b8
	24		Check back jack plug emergency braking system (Evolution)	1SPL:b6
	2 ³		State of complete maintenance platform O.K.	
	2 ²		Travel limiter closed FWBO (Evolution)	1SPL:b2
	21		Travel limiter open (Evolution) break contact!(0-active)	1SPL:b4
	20		Maintenanc platform WAKLA (Evolution)	1SPL:b10
26			Port check word A0	PCWA0
	27			
	2 ⁶			
	25		FJR (Intermediate speed hydraulic lifts)	MV6-x32.8
			with Evolution: FWV: reduced travel	1SPL:b26
	24			
	23			
	2 ²			
	20		1.7	
27	∠°	7000(4)	4 705 as itale we assume at its law disc as VOV/15 as less as 15 a leist as a second	
27	1	ZSE0(1)	1. ZSE switch recognized in landing XX (displayed in binary code)	
28		ZSE0(2)	2. ZSE switch recognized in landing XX (displayed in binary code)	
29 2A		ZSE0(3)	3. ZSE switch recognized in landing XX (displayed in binary code)	
2A 2b	- 1	ZSE0(4)	ZSE switch recognized in landing XX (displayed in binary code) Output on EL display(Telegram)	ELDISP
2 D	27	В	Occupied	LLDISF
	26	F	Fireservice	
	25	V	Priority	†
	24	ÜB	Overload	
	2 ³		Out-of-service indicator	
	22		Emergency power active	
	21		Collective fault message	
	20	SF	Special run	

1) pulses are counted dependent on the run direction (20 to 27 is displayed in LED row A/B)

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2C			Current failure cause with aroun lifte()	STGRND
	00	-	Current failure cause with group lifts1) Lift available	3131/110
	01		Forced run operation active	
	02		Out-of-service	
	03		Poor operation phase (dependent on Norway version)	
	03	VK	Priority car	
	05	ZTK	Intermediate door contact open	
	06	V	Priority MZ1 circuit board	
	06	SF	Special run	
	08	FW	Special run Fireservice	
	09	N	1 2	
	09 0A	IN	Emergency power Cardoor open too long	
	0A 0b		Door failure	
	10			4
	>80		Removed from group operation by monitoring	
24	> 00		Lift-specific program	CTCDA
2d			Last failure with group lifts ²)	STGRA
	00		Lift available	
	01		Forced run operation active	
	02		Out-of-service	
	03	1.07	Poor operation phase (dependent on Norway version)	
	04	VK	Priority car	
	05	ZTK	Intermediate door contact open	
	06	V	Priority MZ1 circuit board	
	07	SF	Special run	
	80	FW	Fireservice	
	09	N	Emergency power	
	0A		Cardoor open too long	
	0b		Door failure	
	10		Removed from group operation by monitoring	
	>80		Lift-specific program	
2E	07		Data from API-S to MC	APISMC
	27			
	2 ⁶	STS	Reference start signal with CPX	
	25	NN	Zero speed	
	24	THE	Temperature	
	23	SMR	Controller failure	
	22	V<0,3m/s		
	21	EBS	Request to apply brakes	
	20	ESP	Request to activate ESP contactor (FL)	
2F	07	_	Output on CPI drive	MCAPIS
	27			
	26	FF	Free run	
	25	VE	Levelling operation speed	
	24	VI	Inspection operation speed	
	23	Vj	Adjusting run speed	
	22	VN	Rated speed	
	21	WU	Run direction DOWN	

will be displayed as hexadecimal number in LED row A. Example: 09 in LED row A LEDs 0000 1001 light up
 displayed last failure before current failure cause column 2C. Is displayed in hexadecimal numbers as in column 2C

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_			
	20	WO	Run direction DOWN

30			Same as for 1MI circuit board port B	MI1PB
	27		·	
	26	IF/RS	Inspection/emergency operation switchr	MF3-x40:1/2SPL:b30
	25	IFO	Inspection button UP	MF3-X40:2
	24	IFU	Inspection button DOWN	MF3-X40:3
	2 ³	LN	Light-barrier re-levelling operation	MF3-X42:2
	2 ²		<u> </u>	
	21	W/L-S		1SPL:b12
	20	WO/WU		1SPL:b10
31			Same as for 1MI circuit board port C	MI1PC
	27	NSE	Emergency power	1MP-X1:8
	26	В	Occupied MZ1	MV6-X4:11
	2 5	ÜL	Overload MZ1	MV6-X4:3
	24	SR	Check back SR module	MV6-X4:2
	2 ³	EK	Limit stop contact	1SPL:b2
	2 ²	HK	Stop contact	1SPL:b4
	21	TK	Door contact	1SPL:b6
	20	KT	Cardoor contactkt	1SPL:b8
32			Same as with 2MI circuit board	MI2PA
			NowMP inputs	
	27			
	26		Barring of calls	1MP-X1:7
	2 ⁵		Reserve (used to be: MV-X4:7)	1MP-X1:6
	24		Emergency call Bayer	1MP-X1:5
	2 ³		Repair switch Bayer	1MP-X1:4
	22		Return disconnectable	1MP-X1:3
	21		Peak traffic DOWN	1MP-X1:2
	20		Peak traffic UP	1MP-X1:1
33			Same as for 2MI Port B	MI2PB
	27			
	2 6			
	2 5	SFG1		MV6-X9:12
	24	1		
	2 3			
	2 ²		Tony Warren fireservice	1MP-X2:3
	21		Emergency stop butoon Norway	1MP-X2:2
	2 0	AVI	Anti-creep device/Emergency braking system	1MP-X2:1
34			Car input word 1 (d112H)	MKEW1
	27	UT	Door-dosed button	MF3-X18:1 / X60:3
	2 ⁶	FW/BF	Fireservice/case-of-fire	MF3(VA) 1)-x6:3
	25			
	24	ÜB	Overload	MF3-X9:1
	2 ³	LM1	Car empty	MF3(VA)-X16:1
	2 ²	OT	Door-open button	MF3-X8:1/X59:3
	21	В	Occupied	MF3-X15:1
	20	V	Priority	MF3-X7:1/X34:3

1) MF3 (VA) stands for circuit board MF3 with double-sided insertion

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35			Car input word 2 (d113H)	MKEW2
	27	KKD	Articulated lever contact – rear entrance door	MF3(VA) -X6:1
	26	LTD	Doorlight barrier-rear entrance door	MF3(VA)-X6:3
	2 ⁵	KK	Articulated lever contact – main door	MF3-X5:1
	24	LT	Doorlight barrier-mian door	MF3-X5:3
	23			
	2 ²	TSOD	Door-open acceptance rear entrance door	MF3(VA)-X4:1
	21			
	20	TSO	Door-open acceptance main door	MF3-X3:1
36			Car input word 3	MKEW3
	27	IFO	Inspection operation button UP	MF3-X40:2
	26	IFU	Inspection operation button DOWN	MF3-X40:3
	2 ⁵	IF	Inspection operation switch	MF3-X40:1
	24	LM2	Load-weighing device input 2	MF3(VA)1)-X17:1
	23	 		5(., 1/,
	22	RES2	Reserve 2	MF3(VA)-X47:1
	21	RES1	Reserve 1 (ZTK)	MF3-X41:1
	20	AT	Coding of landings	MF3 (VA)-X48:1/X49:3
37	+	1/11	Car input word 1	MKEWD1
,,	27	UTD	Door-closed button rear entrance side	MF3-X18:1/X60:3
	26	FWD	Fireservice rear entrance side	MF3(VA)-X10:1/X50:3
	25	FVVD	Fileselvice real entrance side	1411 0(47 47710.11700.0
	24			
	23			
	22	OTD	Deer ener by they were entrepres eigh	MED VOA VEOD
	21	OID	Door-open button rear entrance side	MF3-X8:1/X59:3
	20	\/D	District	N/E0 X74 X/04-0
	Z ⁰	VD	Priority rear entrance side	MF3-X7:1/X34:3
88	07	100	Car input word 2 rear entrance side	MKEWD2
	27	KKT	Articulated lever contact rear entrance side	MF3(VA)-X6:1
	26	LTD	Light barrier rear entrance side	MF3(VA)-X6:3
	2 ⁵			
	24			
	2 ³			
	2 ²	TSOD	Door switch rear entrance side open	MF3(VA)-X4:1
	21			
	20			
9			Car input word 3 rear entrance side	MKEWD3
	27			
	26			
	2 ⁵			
	24	1		
	23	1		
		DECOR	Reserve 2 rear entrance side	MF3(VA)-X47:1
	2 ²	RES2D	LINGSGIVE ZIGALGI WALKE SILIE	I IVITO(VAI-A4/ I

 $^{^{\}rm 1})$ MF3 (VA) stands for circuit board MF3 with double-sided insertion

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20	ATD	Coding of rear entrance landings	MF3(VA)-
			X48:1/X49:3

3A			Port check word MZ1	MPMZ
	27	TSP	Barring of car door (switch on MZ1/MZ2)	
	26	THE	Temperature monitoring main motor O.K.	MV6-X4:12
	25	AL	Disconnection control, light activated	MV6-X4:6
	24	ÜWR	Monitoring of controller tripped (1 = O.K.)	MV6-X6:16
	23	RU	Car call given to lowest landing (button on MZ1)	
	2 ²	V	Priority switch activated (switch on MZ1)	
	21	RO	Car call given to upper landing (button on MZ1)	
	20	S	Test switch	
3b			Messages from MEemergency power circuit board	MNSAV
	27	AF	Start interlocking effective	
	26	RESET	Reset button pressed	
	25			
	24			
	23	NF	Emergency power evacuation enabled	
	2 ²	AS	Start interlocking not effective	
	21	NS	Power contactor activated	
	20	ME	ME emergency power circuit board	
3C			Brake test switch	PEX01
	27	BLK2	Brake test switch 2	MV6-1SPL:b30
	26			
	25			
	24			
	2 ³	BLK1	Brake test switch 1	MV6-1SPL:b28
	2 ²			
	21			
	20			
3d			Electrical recall operation	RHSEIN
	27			
	26	RS	Electrical recall operation activated	MV6-2SPL:b26
	2 ⁵	RSO	Emergency operation switch UP activated	MV6-2SPL:b28
	24	RSU	Emergency operation switch DOWN activated	MV6-2SPL:b30
	23			
	2 ²			
	21			
	20			
3E			Commands and calls (main and rear entrance side)	MSBOIT
	27			
	26	TOD	Landing call UP rear entrance side activated	
	25	TUD	Landing call DOWNrear entrance side activated	
	24	TID	Car command given to rear entrance side	
	23			
	22	TO	Landing call UP given to main side	
	21	TU	Landing call DOWNgiven to main side	
	20	TI	Car command given to main side	

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3F			Data from load-weighing device LMS1	QE	BEL	
	27		Loading of car in %of rated load			
	26					
	25					
	24			7		
	2 ³	Χ				7
	22	Х				
	21	Х			1	
	20	X			/	
40			Door states door drives with CAN bus	МТ	ΓEW	
	27					
	26					
	2 ⁵	>150 N	Closing force rear entrance door			
	24	>150 N	Closing force main door			
	23	TSUD	Door-closed acceptance rear entrance door			
	22	TSOD	Door-open acceptance rear entrance door Door-closed acceptance main door			
	21	TSU				
	20	TSO	Door-open acceptance main door			
41			Error messages from CAN bus door drives for main door	F2	HSF	
	27		Door drive F2/1: overtemperature housing			
	20		F5: driver voltage too low			
	26		No controller enable			
	2 ⁵		Overtemperature of door motor			
	24		Overtemperature of heat sink			
	23		Overvoltage			
	22		Overcurrent	_		
	21		Response of watchdog	_		
	20		Response of run time monitoring	 _ _		
42	07	1	Error messages from CAN bus door drives for rear entrance doors	F2	DSF	
	27		Door drive F2/1: overtemperature housing			
	26		F5: driver voltage too low No controllerenable	+		
	25	-		+		
			Overtemperature of door motor	+-		
	2 ⁴ 2 ³		Overtemperature of heat sink	+-		
	22		Overvoltage Overcurrent	+		
	21			+		
	20		Response of watchdog	+		
43	Z°		Response of run time monitoring	<u> </u>		
43	27	UT	Main memory	HAE	BEWX1	
	26		Door-closed button	+-		
	2 ⁵	FW/BF	Fireservice / case-of-fire	—		
	24	ÜB	Overload	+		
	23	LM1		+		
			Empty car		1	
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2 ²	OT	Door-open button	
21	В	Car occupied	
20	V	Car priority switch activated	

Col	LED	Signal	Outputs	Notes
50			Power part output word 1 (same as for column 05)	FARIL
	27	VR	Lock magnet (TSM) picked up	MV6-X4:9
	26	A5A	Flashing light indicator (will not be evaluated)	
	2 ⁵	TO	Door-open command main door (will turn off, if door-open time has elapsed)	MF3-X43:2
	24	TU	Door-closed command main door (will turn off, if RK contact is closed)	MF3-X43:1
	23	FL	Contactor L (FV)/contactor W(controlled drives) activated	MV6-1SPL:b22
	2 ²	FS	Contactor S (FV)/brake release magnet (Isostop 16M) activated	MV6-1SPL:b24
	21	FO	Current run direction UP	MV6-1SPL:b20
	20	FU	Current run direction DOWN	MV6-1SPL:b18
51			Power part output word 1 (same as for column 06)	LAW2
	27	AL2	Disconnection control and light (effective, if all car commands are served)	MV6-X4:5
	26	FM	Error message – LED on MZ1 circuit board	MZ1:H2
	25	TOD	Door-open command rear entrance door (turns off if door-open time has elapsed)	MF3(VA <u>)</u> 1)-X45:2
	24	TUD	Door-closed command rear entrance door (RKD contact same as for TU with main door)	MF3(VA)-X45:1
	23	NS	Selection of emergency power relay	1MP-X1:14
	2 ²	ASP	Emergency power start barred	1MP-X1:15
	21			
	20	ZS	Carzone signal within landing vane	MV6-X4:1
52			Port Controll word A4 (same as for column 1d)	PCWA4
	27			
	26	VUE	Reduced overtravel	1MP-X2:15
	25	ER	Isostop 40RM converter activated	1MP-X2:14
	24	NHTN	Emergency stop button Norway activated	1MP-X2:13
	23	FES	Accurate adjustment through special gear effective	1MP-X2:12
	22	SM	Collective fault message activated	MV6-2SPL:b14
	21	AVO	Anti-creep device/emergency braking system activated	1MP-X2:10
	20	ABA	Out-of-service indicator	1MP-X2:9
53			Port check word A6 (same as for 1F)	PCWA6
	27			
	26			
	25	ZS3	Former scanning spots selection	1MP-X1:16
	24		Error marking	1MP-X2:11
	23			
	2 ²			
	21			
	20			
54			Car output word 1 (same as for column 10)	KBAW1
	27			

1) MF3 (VA) stands for circuit board MF3 with double-sided insertion

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Ī	26	FWL	Fireservice indicator	MF3-X14:2
	2 ⁵	FW/BF	Gong fireservice/case-of-fire	MF3-X21:2
	24	ÜL/ÜW	Overload indicator/alarm	MF3-X13:2
	23	RW	Call alarm	MF3-X20:2
	22	N	Emergency current indicator	MF3-X12:2
	21	IN	Enraga by Curter Circleator	IVII 3-X 12.2
	20	SFQ	Chariel # In acceptance	MF3-X11:2
55	2.	SFQ	Special run acceptance Car output word 2 main side (same as for column 10)	KBAW2
55	27	GO		MF3-X19:2
	26		Gong in car actuated in UP direction	
		GU	Gong in car actuated in DOWN direction	MF3-X22:2
	2 ⁵	LB3	Position indicator lighted display 3	MF3-X35:9
	24	LB2	Position indicator lighted display 2	MF3-X35:8
	23	RES4	Reserve 2	MF3-X63:2
	22	RES3	Reserve 3	MF3-X62:2
	21	LB1	Position indicator lighted display 1	MF3-X35:7
	20	DIM	Dimmer	MF3-X61:2
56			Car output word 2 rear entrance side	KBAWD2
	27	GOD	Gong in car actuated in UP direction (reserve)	MF3-X19:2
	26	GUD	Gong in car actuated in DOWN direction (reserve)	MF3-X22:2
	25	LB3D	Position indicator lighted display 3	MF3-X35:9
	24	LB2D	Position indicator lighted display 2	MF3-X35:8
	23	RES4D	Reserve 4	MF3-X63:2
	2 ²	RES3D	Reserve 3	MF3-X62:2
	21	LB1D	Position indicator lighted display 1	MF3-X35:7
	20	RES	Dimmer	MF3-X61:2
57			Car output word 3	KBAW3
	27			
	2 ⁶			
	2 ⁵			
	24			
	23	ZTZD	Partly opening – forced door-closing command rear entrance side	
	2 ²	ZTZ	Partly opening – forced door-closing command main side	
	21	ZTZD	Forced door-dosing command rear entrance side	MF3-X46:2
	20	ZTZ	Forced door-dosing command main side	MF3-X44:2
58		1	58 to 5d not assigned currently	
5E			To be assigned freely through diagnostic unit VI via codes 9014 and	
			9015	
5F	4	1	To be assigned freely through diagnostic unit VI via codes 9016 and	
	1		9017	
60	1		Reference state MF3 circuit boards	FKSOLL
	27			
	26			
	2 ⁵	†		
	24	+		
	23	+		
	22	1		
	21	+	MF3 circuit board rear entrance side available	
			I IVII OUI CUIL DUAIU I CAI CI ILI AI IUC SIUC AVAIIADIC	1
			ME2 circuit board main cide a villable	†
61	20		MF3 circuit board main side available Current state MF3 circuit boards	FKIST

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27		
26		
2 ⁵		
24		
2 ³		
2 ²		
21	MF3 circuit board rear entrance side responded	
20	MF3 circuit board main side responded	

62		Reference state MP circuit boards 0 - 7	MPSOL1
02	27	7MP is available	WIFOULT
	26	7/VIPIs available 6MP is available	4
	25	5MP is available	
	24	-	
	23	4MP is a vailable	
	2 ²	3MP is available	
		2MP is available	
	2 ¹	1MPis available	
	20	0MP is available (0MP not available)	
63		Reference state MP boards 0 - 7	MPIST1
	27	7MP responded	
	26	6MP responded	
	25	5MP responded	
	24	4MP responded	
	2 ³	3MP responded	
	2 ²	2MP responded	
	21	1MP responded	
	20	0MP responded (0MP not available)	
64		Reference state MP circuit boards 8 - 15	MPSOL2
	27	15MP is available	
	26	14MP is available	
	25	13MP is available	
	24	12MP is available	
	23	11MP is available	
	2 ²	10MP is available	
	21	9MP is available	
	20	8MP is available	
65		Actual state MP circuit boards 8 - 15	MPIST2
	27	15MP responded	
	26	14MP responded	
	25	13MP responded	
	24	12MP responded	
	23	11MP responded	
	2 ²	10MP responded	
	21	9MP responded	
	20	8MP responded	
66		Reference state additional local circuit boards 1 - 8	LOKOSO1
	27		
	26		
	25		

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24				
23				
22				
21	MO1 a	vailable		

FIS available

67		ACTUAL state additional local circuit boards 1 - 8	LOKIST1
	27		
	26		
	2 ⁵		
	24		
	23		>
	2 ²		
	21	MQ1 responded	
	20	FIS-responded	
6 <mark>81</mark>)		Reference state additional local circuit boards 9 - 16	LOKOSO2
	27		
	26		
	25		
	24		
	23		
	22		
	21		
	20		
69¹)		ACTUAL state additional local circuit boards 1 - 8	LOKIS2
	27		
	26		
	25		
	24		
	23		
	22		
	21		
	20		
6A		Reference state additional car circuit boards 1 - 8	FKZSO1
	27		
	26		
	25		
	24	LED display rear entrance side available	
	23	LED display main side available	
	22	Fx-door drive rear entrance side available	
	21	Fx-door drive main side available	
	20	LMS1 is available	
6b		Actual state additional car circuit boards 1 - 8	FKZIS1

1) not assigned currently.

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27		
26		
25		
24	LED display rear entrance side responded	
23	LED display main side responded	
22	Fx-door drive rear entrance side responded	
21	Fx-door drive main side responded	
20	LMS1 responded	

6C			Reference state additional car circuit boards 9 - 16	FKZSO2
	27			
	26			
	2 ⁵			
	24			
	23			
	22			
	21			
	20			
6d			Actual state additional car circuit boards 9 - 16	FKZIS2
	27			
	26			
	25			
	24			
	23			
	22			
	21			
	20			
6E			Not assigned	
	27			
	26			
	2 ⁵	4		
	24	_		
	23			
	22			
	21			
	20	7.20		
6F		7	Not assigned	
	27			
	26			
	2 ⁵			
	24			
	23			
	22			
	21			
	20			

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Operating Instructions Diagnostic Unit I Functions

<u>6510</u> Type 046 Type No.

Function 06 00 Interrogation of bolt contacts main door (only with TCI control)

LEDs 1 ... 16 in rows A and B indicate the open or closed state of bolt contacts. If there are more than 16 landings, an extension from 17 ... 31 is possible by pushbutton operation.

Example: Lift installation with 6 landings

Main landing	1	2	3	4		6
Rear entrance landing		2			5	

Sequence:

- 1) Select function 06 00 with program selector wheel.
- 2) LED 1, 2, 3, 4, 6, in row B will light (5 does not light, since 5. Landing is rear entrance landing).
- For example, if LED 3 does not light, the bolt contact in the third landing is not closed.

Attention In the event of a fault, all LEDs above the interrupted bolt contact will not light. The display is meaning less when the safety circuit is used (SR module in running-open operating and/or re-levelling with door open, if the car is in a landing and the bolt contacts are bridged.

Functions 06 00 and 07 00 are not effective with TCM controls!

Function 7 00 Interrogation bolt contacts rear entrance door (only with TCI control)

Interrogation analogous to function 06 00

Function 07 00 Display of parameters of CPI controller (only with TCM controls)

- 1) Select function 0700 with program selector wheel. Afterwards press button and you will get to parameter entry level. 0001 will appear on the seven-segment display.
- 2) The desired parameter can be selected from below list of pre-set parameters through selector wheel. Press button again and th contents of the parameter will be displayed.
- 3) To exit function 0700 press button again. Consequently the contents of one parameter can only be displayed; the parameter values cannot be changed. Changes of the parameter settings can only be performed in teach-in mode A7 XX.
- 4) If LED 8 lights stands for negative sign of displayed value!!

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THYSSEN AUFZUGSWE RKE	Operating Instructions Diagnostic Unit I <i>Function</i> s	<u>6510</u> Type
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Display	CPI parameters (same as for displays with parameter entry panel)	Unit	Parameter
00 01	Motor speed	U/min	P100
00 02	Actual speed	cm/s	P101
00 03	Binary inputs	without	P103
00 04	Binary outputs	without	P104
00 05	Encoder PPR	without	P105
00 06	Reference speed	cm/s	P106
00 07	Load current	x 0,1A	P107
00 08	Switching sequence index	without	P110
00 09	Computed deceleration distance v	am	P111
00 10	Measured deceleration distance sv	am	P112
00 11	Travel	am	P113

Display	CPI parameters (adjustable through parameter entry panel)	Unit	Parameter
00 12	Reference value start delay tsrs	ms	P0
00 13	Brake application time tse	ms	P1
00 14	Direction of rotation (0000=not inverted, 0001=inverted)	without	P3
00 15	Direction of rotation (0000=not inverted,001=inverted)	without	P4
00 16	Speed controller, P gain	x 0,1	P5
00 17	Speed controller, I gain	ms	P6
00 18	Preset load (0001=on, 0000=off)	on/off	
00 19	Default value load		
00 20	Analog output MP42	without	P10
00 21	Analog output MP43	without	P11
00 22	Reduction ratio	x 0,1	P13
00 23	Taction-sheave diameter	mm	P14
00 24	Suspension (0001=1:1, 0002=2:1)	without	P15
00 25	Rated speed		
00 26	Motor speed (computed)	U/min	P17
00 27	Operating point for n = 0 speed	x 0,1 U/min	P18
00 28	Start jerk	cm/s ³	P19
00 29	Acceleration	cm/s ²	P20
00 30	Acceleration pre-control (0001=on, 0000=off)	on/off	P21
00 31	Acceleration pre-control	x0,1 %	P22
00 32	Re-levelling speed vi	cm/s	P23
00 33	Inspection operation speed vi	am/s	P24
00 34	Rated speed vv	am/s	P25
00 35	Adjusting operation speed vu	cm/s	P26
00 36	Operating point for output v<0.3 m/s	cm/s	
00 37	Short-run computer (0001=on, 0000=off)	on/off	P38
00 38	Short-run distance correction	without	P39
00 39	Motor selection (time factor for lagging of van) motor type	without	
00 40	Load-weighing	on/off	P50
0041	Measured value from load-weighing	%	P51
00 42	Input value for load compensation	%	P52
0043	Compute gain of load weighing from load current	Α	P53

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<u>6510</u> Type

046 Type No.

00 44	Gain of load weighing	x0,1 %	P54

Comments:

If necessary, display of parameter setting via function 07 00 can be used as quick and useful interrogation tool. For detailed explanation (settings and changes) see respective specific erection instruction.

Also see operating instruction Diagnostic Unit I *Teach-In* and *Parameter setting* (orange sheets).

Function 08 00 Giving car calls - main side

- 1) Select function 08 00 with program selector wheel.
- 2) Press button momentarily, 08 00 will appear on the 7-segment display.
- 3) Press button momentarily; dependent on the number of landings LEDs 1 ... 8 in row B and LEDs 916 in row A will consecutively flash momentarily.
- 4) As soon as the LED of the desired landing flashes, press button momentarily to set one or several car calls. Acknowledge signals on car control panel will light up simultaneously.
- 5) To abort the function, press button for longer than two sec.

Attention If there are more than 16 landings, the second pass can be started for landings 17 to 32, once the first pass is finished. Here, 08 00 will appear on the seven-segment display. Repetitions and giving new calls are possible at any time!

Function 09 00 Giving Down calls – main side

Same as in function 08 00 (00 09 etc. will be indicated after pressing the button momentarily.)

Function 10 00 Giving UPlanding calls

Same as in function 08 00 (00 0 A etc. will be indicated after pressing the button momentarily)

Function 11 00 Giving car calls rear entrance side (selective door control)

Same as in function 08 00 (00 0b etc. will be indicated after pressing the button momentarily)

Function 12 00 Giving DOWN landing calls rear entrance side (selective door control)

Same as in function 08 00 (00 0 Cwill be indicated after pressing the button momentarily)

Function 13 00 Giving UP landing calls – rear entrance side (selective doorcontrol)

Same as in function 08 00 (00 0C will be indicated after pressing button)

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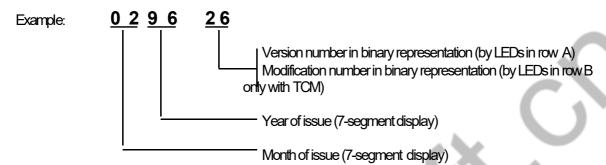
Operating Instructions Diagnostic Unit I Functions

<u>6510</u> Type 046 Type No.

Function 1400 Display of versions and setting of marking flag

Display of version – issue of work program (for Siemens or Thyssen CPU)

- 1) Select function 14 00 with program selector wheel
- 2) Press button and the work program version will appear on the 7-segment display



Marking flag (for identification in error stack)

- 1) As soon as the work program version is indicated, turn program selector switch until all LEDs 5 ... 8 in row B are lighting.
- 2) Continue turning the selector switch until the binary number sequence 0 ... 9 appears on LEDs 1 ... 4 in row B.

Row B	0	1	2	3	4	5	6	7	8	9	Decimal numbers
LED4	0	0	0	0	0	0	0	0	1	1	Binary numbers
LED3	0	0	0	0	1	1	1	1	0	0	1 = LED lights
LED2	0	0	1	_ 1	0	0	1	1	0	0	0 = LED does not light
LED1	0	1	0	1	0	1	0	1	0	1	

- 3) Set the desired binary number with the selector switch and enter it in the error stack of the CPU by pressing the button.
- 4) When the error stack (function 01 00) is interrogated, the following indication will appear on the 7-segment display



Attention	As soon as a marking flag is entered, the error-signalling light-emitting diode on circuit board	MZ or MZ1
	will go out.	
	The error stack can be cleared by teach-in function shaft teach-in.	
	Several marking flags can be stored consecutively!	

Official work program versions:

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The further development of additional features and the use of new drive variants make it necessary that the work program must be adapted to the given development state.

The work programs are normally backward compatible with (references to this effect must be observed). Work programs of older date may only be replaced by up-to-date official version if urgently required (provisional update software, faul6ty lift functions, add-on features, etc.).

For information concerning respective actual software and compatibility see Urgent Information!!



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