1. Error messages

No.	Short description	Possible failure
F.000	Door position too far up	• Too small a parameter value for upper emergency limit switch → Increase P.239 • Upper limit switch range (limit switch band) too small → Increase P.233 • Mechanical brake defective or improperly set
F.005	Door position too far down	• Too small a parameter value for lower emergency limit switch → Increase P. 229 • Lower limit switch range (limit switch band) too small → Increase P. 223 • Mechanical brake defective or improperly set
F.010	Foilkeypad short circuit	Foilkey Open or CLOSE has a short circuit
F.020	Run time exceeded (during opening, closing or deadman)	• Current motor run time has exceeded set maximum run time (P.410 (Opening), P.415 (Closing), P.419 (Deadman move)), door may be sticking or is blocked • Door is blocked • If using mechanical limit switches, one may not have tripped
F.021	Emergency opening wrong testing	• The max. allowed run time (P.490) during testing has exceeded • Call Service
F.030	Lag error (position change of the door is less than expected)	• Gate or motor is blocked • Insufficient power for providing necessary torque • Too little speed • Mechanical limit switch was not left or is defective • Incremental or absolute encoder shaft is slipping • Wrong positioning system selected (P.205) • One motor phase is missing • The brake does not release • Settings of the failure detecting time are not correct (P.430 or P.450)
F.031	Detected rotational direction deviates from expected	• When using incremental encoders: Channel A and B reversed • Motor rotation direction reversed compared with calibration setting → Teach in the limits new (P.210 = 5) • Too much „pancaking“ when starting, brake releases too soon, or too little torque, adjust boost (P.140 or P.145) as necessary.
F.043	Pre-limit switch fault (light barrier)	• The pre-limit switch for the light barrier remains activated even in the middle end position or upper end position.

No.	Short description	Possible failure
F.060	Breakaway recognized	• Breakaway was detected but not fixed • The automatic lead in after breakaway has failed
F.063	Balance error on loop 3	• Disturbing surrounding • Loop out of tolerance range
F.064	Balance error on loop 4	• Disturbing surrounding • Loop out of tolerance range
F.067	Error on loop 3	• Shortcut or intermitted loop connection wirering
F.068	Error on loop 4	• Shortcut or intermitted loop connection wirering
F.080	Fault: Maintenance is required	• Service counter has expired
F.090	Controller not parameterized	• The min. necessary basic parameters for the controller have not yet been set → Activate DIP-switch and put in the asked parameters.
F.101	Message from sensor-actor- interface: An unknown or incompatible device was detected on the CAN or RS485 bus. The controller is not able to identify it and assign it to a device class (detector, light curtain, etc.).	• The serial number of the connected device is not known --> Replace device. • The software version or protocol version is incompatible --> Update the control software.
F.102	Faulty CAN bus due to faulty telegrams.	• Poor CAN wiring • Missing ferrites on the motor cable • Missing terminating resistors for CAN bus termination • CAN lines too long (180m) • Faults on the CAN line when the door operator is moving
F.103	CAN BUS is faulty. The error acknowledges itself automatically if the CAN BUS is not faulty.	• Short circuit of The CAN Low and CAN High lines • A device on The CAN bus interferes with The bus due to faulty telegrams. • Non terminated CAN bus
F.104	The maximum number of permitted devices (16) on the CAN bus has been exceeded.	There are too many devices on the CAN bus
F.105	A CAN bus or RS485 bus participant is in bootloader mode when the controller is switched on	• Power failure during the update • After a failed update, a controller reset is performed.

No.	Short description	Possible failure
F.106	Message from the sensor-actuator interface: Combination check failed The parametrization of the sensors in terms of the installation position or the operating mode is implausible.	- More than one light curtain LGD is in position sensor mode (L.x10=4) or autark mode (L.x10=1) – At least one light curtain LGD is parametrized as an additional light curtain (L.x10=3), but none is in position encoder or autark mode. - P.270 is parametrized to “lower reference LGD” but none of the light curtain slots (L.x10) is set to "position encoder mode"
F.108	Protocol version of a sensor/actuator is higher than the highest known version of the door controller.	Software version of the door control system is too old for the sensor/actuator used
F.109	There is a new safety device connected to the CAN bus that could not be assigned to an SAI slot.	Another light curtain was connected to the CAN bus, but there is no free SAI slot available. Or the SAI slot was preset incorrectly. Remedy: Set corresponding application profile A.480.
F.10A	A sensor/actuator component was not detected or is not present	It was detected that only one component of a sensor/actuator is present on the CAN bus (e.g. for a light curtain only the transmitter) Remedy: - Connect missing component to the CAN bus - Check CAN cabling to see if there is a broken wire.
F.10B	The controller has found an active SAI slot, but no device that has been / can be assigned to it	Connect more devices to CAN bus or deactivate SAI slot
F.110	Defective hardware VEK MNST	The VEK MNST detector is defective and must be replaced.
F.111	Disturbed detector VEK MNST	The VEK MNST detector is faulty. The system must be restarted.
F.112	Detector VEK MNST not plugged in	The VEK MNST detector slot was activated with parameter P.802 or P.803 = 0400, but no detector is plugged in.
F.113	Detector VEK MNST Slot not activated	The VEK MNST detector is plugged in but the slot was not activated with parameter P.802 or P.803 = 0400.
F.114	Detector VEK MNST incompatible with control unit	The VEK MNST detector is not compatible with the controller software version used --> Update of the controller software
F.116	Pairing VEK MNST not possible	The pairing, with the customer coding from the controller for the VEK MNST failed --> Replace Detector with not yet paired version.

No.	Short description	Possible failure
F.117	The VEK MNST has restarted unexpectedly	The processor of the VEK MNST has hung up, crashed or the internal watchdog has triggered, causing the processor to perform a warm start. --> If this occurs repeatedly, the device must be replaced.
F.118	The VEK MNST has received an invalid customer code from the door controller.	The already paired VEK MNST has detected that its customer code does not match the one in the controller and is therefore incompatible --> Use not yet paired detector.
F.120	TST LGD 1 receiver is defect	• An exchange of the receiver is necessary.
F.121	TST LGD 1 transmitter is defect	• An exchange of the transmitter is necessary.
F.122	TST LGD 1 teach in failed	• The teach in process was not completed • Restart the controller • Repeat the teach in process
F.123	TST LGD 1 communication internal	• TST LGD 1 not supplied with voltage • The TST LGD 1 cabling is interrupted. • TST LGD 1 no longer responds to requests from the controller • Restart TST LGD 1
F.124	TST LGD 1 transmitter and receiver have different software versions	• Non compatible Software versions of LGD 1 transmitter and receiver • Update suitable software
F.125	TST LGD 1 Overvoltage or undervoltage at TST LGC transmitter or receiver	- Incorrect cabling - Power supply unit Overloaded Acknowledgement necessary
F.126	Restart TST LGD 1	• TST LGD 1 is unexpectedly restarted • Error must be acknowledged • If repeated, replace TST LGD 1
F.127	TST LGD 1 Controller communication to the receiver interrupted	• TST LGD 1 Receiver not supplied with voltage • Wiring of the TST LGD 1 receiver is interrupted • TST LGD 1 receiver no longer responds to requests from the controller unit • TST LGD 1 Restart receiver
F.128	TST LGD 1 Controller communication to the transmitter interrupted	• TST LGD1 Transmitter not supplied with voltage • Wiring of the TST LGD 1 transmitter is interrupted • TST LGD 1 transmitter no longer responds to requests from the control unit • TST LGD 1 Restart transmitter

No.	Short description	Possible failure
F.129	TST LGD 1 testing failed	• Fault CAN Bus • TST LGD 1 no communication
F.12A	The quality test of the LGD 1 light curtain failed.	• Optimize alignment between transmitter and receiver. • The error will reset itself if the test is successful. • To skip the error and continue teaching, press and hold the stop button.
F.12B	TST LGD 1 Customer coding receiver	TST LGD 1 receiver and control unit are not compatible
F.12C	TST LGD 1 Customer coding transmitter	TST LGD 1 transmitter and control unit are not compatible
F.130	TST LGD 2 receiver is defect	• An exchange of the receiver is necessary.
F.131	TST LGD 2 transmitter is defect	• An exchange of the transmitter is necessary.
F.132	TST LGD 2 teach in failed	• The teach in process was not completed • Restart the controller • Repeat the teach in process
F.133	TST LGD 2 communication internal	• TST LGD 2 not supplied with voltage • The TST LGD 2 cabling is interrupted. • TST LGD 2 no longer responds to requests from the controller • Restart TST LGD 2
F.134	TST LGD 2 transmitter and receiver have different software versions	• Non compatible Software versions of LGD 2 transmitter and receiver • Update suitable software
F.135	TST LGD 2 Overvoltage or undervoltage at TST LGC transmitter or receiver	- Incorrect cabling - Power supply unit Overloaded Acknowledgement necessary
F.136	Restart TST LGD 2	• TST LGD 2 is unexpectedly restarted • Error must be acknowledged • If repeated, replace TST LGD 2
F.137	TST LGD 2 Controller communication to the receiver interrupted	• TST LGD 2 Receiver not supplied with voltage • Wiring of the TST LGD 2 receiver is interrupted • TST LGD 2 receiver no longer responds to requests from the controller unit • TST LGD 2 Restart receiver

No.	Short description	Possible failure
F.138	TST LGD 2 Controller communication to the transmitter interrupted	• TST LGD 2 Transmitter not supplied with voltage • Wiring of the TST LGD 2 transmitter is interrupted • TST LGD 2 transmitter no longer responds to requests from the control unit • TST LGD 2 Restart transmitter
F.139	TST LGD 2 testing failed	• Fault CAN Bus • TST LGD 2 no communication
F.13A	The quality test of the LGD 2 light curtain failed.	• Optimize alignment between transmitter and receiver. • The error will reset itself if the test is successful. • To skip the error and continue teaching, press and hold the stop button.
F.13B	TST LGD 2 Customer coding receiver	TST LGD 2 receiver and control unit are not compatible
F.13C	TST LGD 2 Customer coding transmitter	TST LGD 2 transmitter and control unit are not compatible
F.140	TST LGD 3 receiver is defect	• An exchange of the receiver is necessary.
F.141	TST LGD 3 transmitter is defect	• An exchange of the transmitter is necessary.
F.142	TST LGD 3 teach in failed	• The teach in process was not completed • Restart the controller • Repeat the teach in process
F.143	TST LGD 3 communication internal	• TST LGD 3 not supplied with voltage • The TST LGD 3 cabling is interrupted. • TST LGD 3 no longer responds to requests from the controller • Restart TST LGD 3
F.144	TST LGD 3 transmitter and receiver have different software versions	• Non compatible Software versions of LGD 3 transmitter and receiver • Update suitable software
F.145	TST LGD 3 Overvoltage or undervoltage at TST LGC transmitter or receiver	- Incorrect cabling - Power supply unit Overloaded Acknowledgement necessary
F.146	Restart TST LGD 3	• TST LGD 3 is unexpectedly restarted • Error must be acknowledged • If repeated, replace TST LGD 3

No.	Short description	Possible failure
F.147	TST LGD 3 Controller communication to the receiver interrupted	• TST LGD 3 Receiver not supplied with voltage • Wiring of the TST LGD 3 receiver is interrupted • TST LGD 3 receiver no longer responds to requests from the controller unit • TST LGD 3 Restart receiver
F.148	TST LGD 3 Controller communication to the transmitter interrupted	• TST LGD 3 Transmitter not supplied with voltage • Wiring of the TST LGD 3 transmitter is interrupted • TST LGD 3 transmitter no longer responds to requests from the control unit • TST LGD 3 Restart transmitter
F.149	TST LGD 3 testing failed	• Fault CAN Bus • TST LGD 3 no communication
F.14A	The quality test of the LGD 3 light curtain failed.	• Optimize alignment between transmitter and receiver. • The error will reset itself if the test is successful. • To skip the error and continue teaching, press and hold the stop button.
F.14B	TST LGD 3 Customer coding receiver	TST LGD 3 receiver and control unit are not compatible
F.14C	TST LGD 3 Customer coding transmitter	TST LGD 3 transmitter and control unit are not compatible
F.150	TST LGD 4 receiver is defect	• An exchange of the receiver is necessary.
F.151	TST LGD 4 transmitter is defect	• An exchange of the transmitter is necessary.
F.152	TST LGD 4 teach in failed	• The teach in process was not completed • Restart the controller • Repeat the teach in process
F.153	TST LGD 4 communication internal	• TST LGD 4 not supplied with voltage • The TST LGD 4 cabling is interrupted. • TST LGD 4 no longer responds to requests from the controller • Restart TST LGD 4
F.154	TST LGD 4 transmitter and receiver have different software versions	• Non compatible Software versions of LGD 4 transmitter and receiver • Update suitable software
F.155	TST LGD 4 Overvoltage or undervoltage at TST LGC transmitter or receiver	- Incorrect cabling - Power supply unit Overloaded Acknowledgement necessary

No.	Short description	Possible failure
F.156	Restart TST LGD 4	• TST LGD 4 is unexpectedly restarted • Error must be acknowledged • If repeated, replace TST LGD 4
F.157	TST LGD 4 Controller communication to the receiver interrupted	• TST LGD 4 Receiver not supplied with voltage • Wiring of the TST LGD 4 receiver is interrupted • TST LGD 4 receiver no longer responds to requests from the controller unit • TST LGD 4 Restart receiver
F.158	TST LGD 4 Controller communication to the transmitter interrupted	• TST LGD 4 Transmitter not supplied with voltage • Wiring of the TST LGD 4 transmitter is interrupted • TST LGD 4 transmitter no longer responds to requests from the control unit • TST LGD 4 Restart transmitter
F.159	TST LGD 4 testing failed	• Fault CAN Bus • TST LGD 4 no communication
F.15A	The quality test of the LGD 4 light curtain failed.	• Optimize alignment between transmitter and receiver. • The error will reset itself if the test is successful. • To skip the error and continue teaching, press and hold the stop button.
F.15B	TST LGD 4 Customer coding receiver	TST LGD 4 receiver and control unit are not compatible
F.15C	TST LGD 4 Customer coding transmitter	TST LGD 4 transmitter and control unit are not compatible
F.160	Motion detector 1 MWD BPC is defective	An exchange of the device is necessary
F.162	Motion detector 1 Communication of the control unit with the MWD BPC motion detector was interrupted.	• Check the wiring of motion detector 1. • Restart the control unit or the motion detector
F.166	Motion detector 1 MWD BPC customer coding failed	• Customer coding of the MWD BPC is not compatible with the control unit. • MWD BPC may already be encoded. Replace with an unpaired device
F.168	Motion detector 1 MWD BPC wrong customer coding	• Customer coding of the MWD BPC is not compatible with the control unit. • Replace MWD BPC with unpaired or correctly paired

No.	Short description	Possible failure
F.16E	Motion detector 1 MWD BPC software update failed.	• If the error occurs at 0% the update file might be incompatible to the MWD BPC. • If the error occurs during the transfer of the update, perform the update again, if it occurs several times, replace the device
F.170	Motion detector 2 MWD BPC is defective	An exchange of the device is necessary
F.172	Motion detector 2 Communication of the control unit with the MWD BPC motion detector was interrupted.	• Check the wiring of motion detector 2 • Restart the control unit or the motion detector
F.176	Motion detector 2 MWD BPC customer coding failed	• Customer coding of the MWD BPC is not compatible with the control unit. • MWD BPC may already be encoded. Replace with an unpaired device
F.178	Motion detector 2 MWD BPC wrong customer coding	• Customer coding of the MWD BPC is not compatible with the control unit. • Replace MWD BPC with unpaired or correctly paired
F.17E	Motion detector 2 MWD BPC software update failed.	• If the error occurs at 0% the update file might be incompatible to the MWD BPC. • If the error occurs during the transfer of the update, perform the update again, if it occurs several times, replace the device
F.180	Motion detector 3 MWD BPC is defective	An exchange of the device is necessary
F.182	Motion detector 3 Communication of the control unit with the MWD BPC motion detector was interrupted.	• Check the wiring of motion detector 3 • Restart the control unit or the motion detector
F.186	Motion detector 3 MWD BPC customer coding failed	• Customer coding of the MWD BPC is not compatible with the control unit. • MWD BPC may already be encoded. Replace with an unpaired device
F.188	Motion detector 3 MWD BPC wrong customer coding	• Customer coding of the MWD BPC is not compatible with the control unit. • Replace MWD BPC with unpaired or correctly paired
F.18E	Motion detector 3 MWD BPC software update failed.	• If the error occurs at 0% the update file might be incompatible to the MWD BPC. • If the error occurs during the transfer of the update, perform the update again, if it occurs several times, replace the device
F.190	Motion detector 4 MWD BPC is defective	An exchange of the device is necessary

No.	Short description	Possible failure
F.192	Motion detector 4 Communication of the control unit with the MWD BPC motion detector was interrupted.	• Check the wiring of motion detector 4 • Restart the control unit or the motion detector
F.196	Motion detector 4 MWD BPC customer coding failed	• Customer coding of the MWD BPC is not compatible with the control unit. • MWD BPC may already be encoded. Replace with an unpaired device
F.198	Motion detector 4 MWD BPC wrong customer coding	• Customer coding of the MWD BPC is not compatible with the control unit. • Replace MWD BPC with unpaired or correctly paired
F.19E	Motion detector 4 MWD BPC software update failed.	• If the error occurs at 0% the update file might be incompatible to the MWD BPC. • If the error occurs during the transfer of the update, perform the update again, if it occurs several times, replace the device
F.1A9	Prohibited operation of TST LGB with TST DRAxSU or TST PD2-CA	It was detected that a TST LGB light curtain is parameterised via P.433. **Simultaneous operation of TST LGB light curtains and TST DRAxSU or TST PD2-CA is NOT possible.** Convert and/or re-parameterise the gate.
F.1B0	Defective hardware TST UTA 1	The TST UTA 1 is defective and must be replaced.
F.1B2	TST UTA 1 Communication error to the control box	TST UTA 1 is parameterised but not connected
F.1B3	TST UTA 1 Bluetooth communication error	The Bluetooth communication of the TST UTA 1 is disturbed
F.1B4	TST UTA 1 is incompatible with the control box	The TST UTA 1 is not compatible with used controller version --> Update the control box software
F.1B6	Pairing of the TST UTA 1 not possible	The pairing with the customer coding of the controller for the TST UTA 1 has failed --> Replace UTA 1 with a not yet paired version.
F.1B8	TST UTA 1 Customer coding	TST UTA 1 and the door controller are not compatible
F.1BE	TST UTA 1 Software Update Failed	An error occurred during the update. --> Start update again.
F.1C0	Defective hardware TST UTA 2	The TST UTA 2 is defective and must be replaced.
F.1C2	TST UTA 2 Communication error to the control box	TST UTA 2 is parameterised but not connected
F.1C3	TST UTA 2 Bluetooth communication error	The Bluetooth communication of the TST UTA 2 is disturbed

No.	Short description	Possible failure
F.1C4	TST UTA 2 is incompatible with the control box	The TST UTA 2 is not compatible with used controller version --> Update the control box software
F.1C6	Pairing of the TST UTA 2 not possible	The pairing with the customer coding of the controller for the TST UTA 2 has failed --> replace UTA 2 with a not yet paired version.
F.1C8	TST UTA 2 Customer coding	TST UTA 2 and the door controller are not compatible
F.1CE	TST UTA 2 Software Update Failed	An error occurred during the update. --> Start update again.
F.201	Internal E-Stop „push-button“ tripped or Watchdog (computer monitor) (watchdog only for FUS, FUN, FUE, FU3E, FU3P)	• E-Stop chain was interrupted starting at input „internal E-Stop“ without parameterizing mode having been selected • Internal parameter or EEPROM checks defective, pressing the STOP button provides additional information about the cause (only valid for FUS, FUN, FUE, FU3E, FU3P)
F.211	External E-Stop 1 tripped	• E-Stop chain was interrupted starting at Input 1
F.212	External E-Stop 2 tripped	• E-Stop chain was interrupted starting at Input 2
F.360	Short circuit detected on edge input	• Short circuit detected on edges with normally closed contact • The light beam of the optical edge is interrupted • Jumper for 1K2 / 8K2 is wrong set
F.361	Number of trips of the Safety input D, normally this is the integrated safety edge evaluation, has reached set limit	• Parameterized, maximum number of trips of the safety input D during a door cycle was exceeded → To reset close the door in deadman mode • Check the set number of trips in P.46E
F.362	Redundancy error with short circuit	• One of the processing channels for short circuit detection does not react identically with the second channel → Controller board defective, if no other error message F.3xx is shown • Dynamical optical safety edge connected but not set in Parameter P.460
F.363	Interruption on edge input	• Connection cable defective or not connected • Termination resistor incorrect or missing • Jumper 1K2 / 8K2 incorrectly set
F.364	Safety edge testing failed	• Safety edge was not activated as expected when requesting a test. • The time between request for testing and actual testing not in agreement
F.366	Too high a pulse frequency for optical safety edge	• Defective optical safety edge • Defective input for internal safety edge
F.369	Internal safety edge incorrectly parameterized	• An internal safety edge is connected but deactivated → set P.460 to the used edge type

No.	Short description	Possible failure
F.371	Number of trips of the Safety input E, normally this is the integrated safety edge evaluation, has reached set limit	• Parameterized, maximum number of trips of the safety input E during a door cycle was exceeded → To reset close the door in deadman mode • Check the set number of trips in P.47E
F.372	Redundancy error with short circuit	• One of the processing channels for short circuit detection does not react identically with the second channel. • Controller board defective
F.373	Fault in the safety edge (message comes from module)	• Cable break to safety edge, no edge connected, edge termination resistor incorrect or defective • Jumper for termination resistor definition in wrong position. • Safety edge processing selected with Parameter P.470, but module not plugged in or wrong module.
F.374	Safety bar testing failed	• Pre-limit switch for safety edge incorrectly set or defective • Processing module defective • Safety edge defective
F.379	Safety edge detection defective (coding pin or parameter setting)	• No module plugged in but was reported as present by a parameter • The controller was started up with another module than the one currently plugged in
F.380	Short circuit detected on safety input	• Short circuit detected on edges with normally closed contact
F.383	Interruption on safety input	• Connection cable defective or not connected • Termination resistor incorrect or missing • Jumper incorrectly set
F.384	Safety input testing failed	• Safety edge was not activated as expected when requesting a test. • The time between request for testing and actual testing not in agreement
F.385	Fault in pre-limit switch for safety edge	• Pre-limit switch for turning off the safety edge or reversing after safety edge tripping remains tripped even in the upper end position.
F.386	Too high a pulse frequency for optical edge	• Defective optical safety edge • Defective input for internal safety edge
F.389	Safety input incorrectly parameterized	• A safety edge is connected but deactivated • With WUE / FUZ2: Safety input Jumper incorrectly set (as digital input jumpered but as safety edge set)
F.38A	Redundancy error of the 8K2 slip door switch on the second internal safety edge evaluation unit	• One of the contacts of the redundant 8k2 slip door switch is defective • The slip door was not fully opened or closed
F.3A1	Number of trips for safety input A has reached set limit	• Parameterized, maximum number of safety input trips during a door cycle was exceeded

No.	Short description	Possible failure
F.3B1	Number of trips for safety input B has reached set limit	• Parameterized, maximum number of safety input trips during a door cycle was exceeded
F.3C1	Number of trips for safety input C has reached set limit	• Parameterized, maximum number of safety input trips during a door cycle was exceeded
F.3F4	2. external safety edge - testing failed	• Pre-limit switch for safety edge incorrectly set or defective • Processing module defective • Safety edge defective
F.400	Controller hardware reset detected	• Excessive noise on supply voltage • Internal watchdog tripped • RAM error
F.401	Watchdog Error	• Internal Watchdog has released
F.40A	internal Software Reset	Unplanned software reset of the processor
F.40B	Communication error expansion board	• The communication between main board and expansion board is disturbed
F.40C	Unknown extension board (CAN connection)	• Incorrect hardware coding of the extension board • Control software does not support the expansion card • Expansion card defective
F.410	Over-current (motor current or DC-bus)	• Wrong motor data set (P.100 – P.103) • Non-adjusted voltage increase / boost set (P.140 or P.145) • Motor not properly dimensioned for door • Door sticks
F.425	Overvoltage line supply	• The supply voltage for the controller is to high
F.426	Undervoltage line supply	• The supply voltage for the controller is to low
F.430	Temperature heat sink outside of working range Limit 1	• Excessive load on power stage or brake chopper • Ambient temperature too low for controller operation • Clock frequency of power stage too high (Parameter P.160)
F.435	Housing temperature high	• The temperature inside the controller housing is to high
F.51A	Phase cut not possible	• Phase comparison out of tolerance • Voltage measurement faulty
F.522	Permissible DC current for a single-phase power supply is too high	On the FU3F a single-phase power supply was detected and the permissible DC current for a single-phase power supply is too high. This error always occurs in combination with F.540

No.	Short description	Possible failure
F.524	Ext. 24 V supply missing or too low	• Overload but no short circuit • When 24V is shorted the controller voltage does not ramp up and glow lamp V306 comes on.
F.525	Overvoltage at the incoming mains supply	• The incoming mains supply for the Controller is to high • The incoming mains supply fluctuates very extremely
F.526	Undervoltage at mains supply	• The mains supply for the controller is too low • The mains supply fluctuates extremely
F.535	Housing temperature high	• The temperature inside the controller housing is to high
F.601	Bad Light curtain reception quality	Poor reception quality when the light curtain is started • Light curtain dirty • Protection foil not removed • Bad aligned • Wrong Range set.
F.610	Light curtain light line alignment	Light line alignment has not been done. • Too less Increments
F.611	Light curtain light line position values not plausible	Position values stored by the light curtain do not match door movement • Objects in the door area during teach in
F.612	External RS-485	RS-485 communication failure between Receiver and Door Controller • Insufficient valid position data • A and B wires twisted • Wrong connection.
F.613	Internal RS-485	RS-485 communication error between Transmitter and Receiver • A and B wires twisted • Wrong connection

No.	Short description	Possible failure
F.615	Internal error of the light curtain transmitter	Internal transmitter error • RAM test has failed • ROM test has failed • Program run error • Synchronisation error • Addressing module defective • Dark test has failed • Digital-analog converter is defective • Replace hardware!
F.616	Internal error Light curtain Receiver	Internal receiver error • RAM test fail • ROM test fail • Program run error • Sync error • Addressing module defective • Dark test fail • D/A converter defective • Watchdog not triggered or hangs • Replace hardware!
F.617	Light curtain incompatibility	Transmitter and receiver are not compatible. • Modified Transmitter serial number • Incompatible Hardware version / revision level • Incompatible Software version
F.618	LGB Branding Error	• The controller expects a customer-coded light curtain. • A connected, customer-coded light curtain is not compatible with the controller.
F.621	Light curtain test error (transmitter)	Test error for the internal transmitter system test
F.622	Light curtain test error (receiver)	Test error for the internal receiver system test
F.626	Light curtain test error (Out 1)	Test / wiring error of output 1
F.627	Light curtain test error (Out 2)	Test / wiring error of output 2

No.	Short description	Possible failure
F.628	Light curtain LGB dark test error	Dark test error • External light source • Uncontrolled transmissions • Defective receiver
F.700	Position sensing defective	For mechanical limit switches: • At least one limit switch does not correspond to the configured active status. • An implausible combination of at least 2 active limit switches For electronic limit switches: • After invoking activation of the factory parameters (Parameter P.990) the corresponding positioning system was not parameterized. • Calibration not completed or is incorrect and must be repeated. • When activating the intermediate stop the intermediate stop is implausible. • Synchronization not finished or reference switch defective.
F.752	Loss of communication with encoder	• Interface cable defective / interrupted • Supply voltage 12 Volt faulty, e.g. shortcut in spiral cable • Channel A and B connected over cross • Absolute encoder processor electronics defective • Defective hardware or electrically noisy environment • Use a shielded control cable • Install a RC element (100Ω+100nF) at the brake
F.760	Position outside of window	• Position encoder drive defective • Absolute encoder processing electronics defective • Defective hardware or electrically noisy environment
F.763	DES-B Error	• Position encoder drive defective -> Make a reset

No.	Short description	Possible failure
F.765	Hardwarefehler TST PD2	- ROM error - RAM error - Runtime error - EEPROM error Hardware defective -> replace
F.766	Internal error TST PD/PE	• The position encoder TST PD / PE is disturbed -> Make a reset
F.767	Overtemperature TST PD	• The temperature in the encoder housing is to high
F.768	Battery voltage	• The voltage of the buffer battery is to low → change battery
F.769	Rotation speed of PD shaft to high	• The rotation speed of the shaft where the encoder is mounted is to high → Mount the encoder on another shaft
F.76A	TST PD2 magnetic field amplitude too low	The magnetic field monitoring has kicked in: The amplitude of the magnetic field is monitored during teach-in and operation. The amplitude is too small --> the magnet must be placed closer to the sensor. Please note: If the amplitude decreases during operation, e.g. due to ageing of the magnet, this initially leads to the info message I.76A. Only after restarting the door controller does this lead to the error, as a gate movement may not have been detected in the switched-off state. The error makes it necessary to recalibrate the door controller.
F.76B	TST PD2 wake-up switch faulty	The wake-up switches of the TST PD2 do not work as desired. This can lead to an unrecognised change in position if the door is moved with the door controller switched off. Please change the TST PD2. Please note: The error is only displayed after restarting the door controller, as it has no influence when the power supply is active. The error makes it necessary to recalibrate the door controller. Acknowledging the error and recalibrating allows operation of the door controller until the next reset. Only with this would the error be displayed again if the cause of the error is not rectified.

No.	Short description	Possible failure
F.770	Door way is to high for the parameter set Encoder resolution	• The Value of the Parameter P.202 (set Encoder resolution) is to high for the combination Encoder and Door.
F.782	The expansion card cannot communicate via the encoder's bus	• Communication with expansion board is not possible • No expansion board plugged in • CAN Connection interrupted (Broken cable or no supply voltage for extension board) • Check that the RUN LED flashes
F.783	Software version incompatible	The software version of the RFUxIO expansion board is not up-to-date or incompatible with the software of the door controller.
F.784	RFUxIO not activated.	RFUxIO is plugged in but not activated. Set Parameter P.800 = 8
F.7A2	Timeout with protocol transmission	• Interface connection wrong or not connected • Defective hardware or strong disturbed surrounding • Use shielded control cable
F.7B2	Communication Master-Slave interrupted	• Interface connection wrong or not connected • Channel A and B connected twisted • Defective hardware or strong disturbed surrounding • Use shielded control cable
F.801	Wrong Test of input 1 of the mobile unit TST FSx	• Input 1 of the mobile unit was tested wrong • The device which is connected to the input does not work correct • The mobile unit is defective
F.802	Wrong Test of input 2 of the mobile unit TST FSx	• Input 2 of the mobile unit was tested wrong • The device which is connected to the input does not work correct • The mobile unit is defective
F.803	Wrong Test of input 3 of the mobile unit TST FSx	• Input 3 of the mobile unit was tested wrong • The device which is connected to the input does not work correct • The mobile unit is defective
F.804	Wrong Test of input 4 of the mobile unit TST FSx	• Input 4 of the mobile unit was tested wrong • The device which is connected to the input does not work correct • The mobile unit is defective
F.80A	Wrong Test of input A of the stationary unit TST FSx	• Input A of the stationary unit was tested wrong • The device which is connected to the input does not work correct • The stationary unit is defective

No.	Short description	Possible failure
F.80B	Wrong Test of input B of the stationary unit TST FSx	• Input B of the stationary unit was tested wrong • The device which is connected to the input does not work correct • The stationary unit is defective
F.80C	Wrong Test of input C of the stationary unit TST FSx	• Input C of the stationary unit was tested wrong • The device which is connected to the input does not work correct • The stationary unit is defective
F.811	Wrong test for output 1 of the stationary unit TST FSx	• Output 1 of the stationary unit was tested incorrectly • The cable between the stationary unit and the controller is damaged or not connected • The stationary unit is defective • Incorrect settings for parameter P.5xF, P.47b or P.465
F.812	Wrong Test for output 2 of stationary unit TST FSx	• Output 2 of the stationary unit was tested incorrectly • The cable between stationary unit and controller is damaged or not connected • The stationary unit is defective • Incorrect settings for parameter P.5xF, P.47b or P.465
F.813	Wrong Test of output 3 of the stationary unit TST FSx	• Output 3 of the stationary unit was tested incorrectly • The cable between the stationary unit and the controller is damaged or not connected • The stationary unit is defective • Incorrect settings of parameter P.5xF, P.47b or P.465
F.821	Wrong parameter setting input 1 of mobile unit	• The device which is connected to input 1 of the mobile unit does not fit to the settings • Check Parameter P.F1F
F.822	Wrong parameter setting input 2 of mobile unit	• The device which is connected to input 2 of the mobile unit does not fit to the settings • Check Parameter P.F2F
F.823	Wrong parameter setting input 3 of mobile unit	• The device which is connected to input 3 of the mobile unit does not fit to the settings • Check Parameter P.F3F
F.824	Wrong parameter setting input 4 of mobile unit	• The device which is connected to input 4 of the mobile unit does not fit to the settings • Check Parameter P.F4F
F.831	Disturbed input 1 of mobile unit TST FSx	• The input 1 of the mobile unit is disturbed • The connection to the device is interrupted
F.832	Disturbed input 2 of mobile unit TST FSx	• The input 2 of the mobile unit is disturbed • The connection to the device is interrupted

No.	Short description	Possible failure
F.833	Disturbed input 3 of mobile unit TST FSx	• The input 3 of the mobile unit is disturbed • The connection to the device is interrupted
F.834	Disturbed input 4 of mobile unit TST FSx	• The input 4 of the mobile unit is disturbed • The connection to the device is interrupted
F.841	Frequency error on input 1 of mobile unit	• The connected optical safety edge is faulty
F.843	Frequency error on input 3 of mobile unit	• The connected optical safety edge is faulty
F.851	Max. Number of allowed Reversings, because of bad WiCAB radio, exceeded.	The radio connection interrupts during door drive for a short time
F.852	Communication error between TST FSx and controller	This error is shown when the controller looses RS485 communication for min. 1 second with the stationary unit of TST FSx. Possible causes are: • The stationary unit is broken • The stationary unit is not or wrong connected
F.853	TST PE_FSBS operating voltage too low	The operating voltage of encoder TST PE_FSBS is too low (less than 8V). As a result, the calculation of the position must be terminated.
F.854	Faulty wiring between stationary unit and controller	Number of trips permitted (P.F02) due to breakage or short circuit on a line between stationary unit and door controller. This fault may be caused by a disturbance on the edge connection cable (e.g. motor cable).
F.856	Communication error between mobile and stationary unit	This error is shown when the stationary unit don`t have communication for min. 1 second with the mobile unit of TST FSx. Possible causes are: • No mobile unit in radio range • The battery of the mobile unit is empty or not connected • The antenna of the stationary unit is not connected or missing • Mobile unit or stationary unit is defective
F.857	Battery empty	• The battery voltage is under the limit set with Parameter P.F0B • The battery voltage of the mobile unit is to low • To deactivate this error message you can set P.F09 and P.F0B to 1

No.	Short description	Possible failure
F.858	Customer coding Feig position sensor	• Control unit expects customer-coded position sensor • Customer-coded position encoder is not compatible with the control unit
F.859	Software version	The software versions of the stationary and the mobile unit are not compatible. No safe trip possible.
F.860	Internal fault stationary unit	Internal system fault on the stationary unit.
F.861	Internal fault mobile unit	Internal system fault on the mobile unit.
F.862	Internal positioning system error	Internal error of the positioning system. Presumably, the magnet is not attached properly.
F.867	Address of mobile unit not set	• The address of the mobile unit was not set so far • The address has to be set in Parameter P.F07 • The address is written on a sticker on the mobile unit
F.8B0	No communication possible between door control unit and TST RBA, despite Bluetooth being activated	• TST RBA is not installed but parameterized (P.806=1) • TST RBA is defective
F.8B1	Hardware error of the TST RBA detected	• TST RBA has detected an internal error Hardware must be replaced
F.8B2	Incorrect customer code in TST RBA	• TST RBA was previously installed in a door controller of another customer and no longer has standard coding
F.910	No communication to expansion board possible	• The communication to the expansion board is not possible • No expansion board plugged in • CAN Connection interrupted (Broken cable or no supply voltage for extension board)
F.911	ROM error on extension board	• Wrong Flash-Code • Defective hardware or noise-saturated environment
F.912	RAM error on extension board	• Defective hardware or noise-saturated environment
F.920	Internal 2.5 V reference voltage incorrect	• Hardware defect
F.921	Internal 15 V voltage incorrect	• Hardware defect

No.	Short description	Possible failure
F.922	Static and dynamic monitoring of the emergency stop chain against defect or external power (static monitoring is offered by each controller, dynamic monitoring does not exist in WU2/WUI2/FUH/FU3R/FUZ/FUZ2	Static monitoring: Interrupted emergency stop chain means: All emergency inputs from the interrupted one, including all subsequent emergency inputs, must be triggered, if one of the subsequent emergency inputs is not triggered it must be assumed that a remote supply is used Dynamic monitoring: During the system tests, the closed emergency chain is actively opened by an internal switch, so that all emergency inputs must be activated, if this does not occur, it must be assumed that an external supply is used or that a defect has occurred
F.928	Faulty input testing	• The testing of an cyclic tested input was not successful • The connected device is not working • The cable connection between the connected device and the controller is broken
F.92A	If the motor wiring test is activated by P.112 the wiring will be tested during system tests.	• Min. one of the motor cables is not good or nor connected • Motor cable damaged • Motor damaged
F.92B	Power supply overload or faulty	• 24V power supply overload • 24V power supply faulty
F.930	External watchdog incorrect	• Defective hardware or noise-saturated environment
F.931	ROM error	• Wrong EPROM code • Defective hardware or noise-saturated environment
F.932	RAM error	• Defective hardware or noise-saturated environment
F.933	Wrong frequency of CPU	• The clock frequency of the processor is wrong
F.935	Stack error	• UserSTack or SystemStack overflowed • Possible software error due to recursive invocations (e.g. profile)
F.936	Control of the power stage (first shutdown) is faulty	The monitoring of the power stage has detected an error behaviour and activated the second cut-off path of the power stage. The power stage is disabled and the emergency stop is switched. • A ramp has not been driven, eg door does not slow down • Power stage output has not been switched off, eg when the unit is at a standstill, further voltage is output
F.938	Logical program execution monitoring failed	• Program execution not working as expected • Environmental interference • Faulty software

No.	Short description	Possible failure
F.93A	Output stage faulty	• Blown fuse • Relay faulty • Missing relay activation
F.93B	Faulty main board	• Faulty monitoring circuit
F.960	Wrong parameter checksum	• New EPROM version with different parameters • Controller not yet initialized
F.961	Checksum from calibration values etc.	• New EPROM version with different EEPROM structure • Controller not yet initialized
F.962	Converter parameters not plausible	• New EPROM version • Controller not yet initialized
F.964	Program version / manufacturer code	• New EPROM version • Controller not yet initialized
F.965	Faulty door cycle counter with active emergency opening	• The door cycle counter does not count or is faulty. Because of this no emergency opening testing can be done.
F.967	Incompatible TST LGB software version	TST LGB with software version V3.21 or earlier in combination with DES-A connected and activated.
F.968	Programming error with Real time clock	• The Clock is not programmed plausible
F.969	Internal error Real time clock	• The clock has an error → Check battery, possibly empty. Make time and date settings again.
F.970	Plausibility Param.block error	• New EPROM version • Controller not yet initialized • Some parameter is implausible
F.971	Faulty configuration data	The configuration data is incorrect or does not match the firmware. New software with the correct configuration must be installed.
F.C52	Loss of communication with TST PD2-Cx	• CAN- Interface cable defective / interrupted • Supply voltage faulty • Defective hardware or electrically noisy environment

2. Information messages

No.	Description
I.021	Emergency open test is running
I.080	Service counter will run off
I.160	Permanent open command still active
I.161	Priority still active
I.170	Forced opening active
I.180	Wait for foil key command
I.185	Wait for reset by stop foil key
I.199	Door counter wrong
I.205	Synchronisation done
I.210	Limit switch not plausible
I.211	Limit switch not plausible
I.310	Open command to door 2
I.360	Disturbed N.C. safety edge
I.363	Disturbed N.O. safety edge
I.380	Faulty 2nd internal N.C. safety bar
I.383	Faulty 2nd internal N.O. safety bar
I.510	Correction drive finished
I.515	Active correction drive
I.520	Target speed for opening or closing move not reached • Pre-limit switch reached before full speed was reached --> Adjust ramps • Current limiter prevents movement at full speed --> Inverter or motor working at performance limit --> Adjust ramps or limiter
I.555	Measuring rotation factor not ready
I.610	Light line alignment completed successfully.
I.615	Light curtain light line alignment start
I.616	The second light line alignment with normal drive speed is active

No.	Description
I.621	The resolution of the installed position encoder is too low to maintain robust light curtain operation. More increments are required per door move . (Message only occurs when DIP-Switch is ON.)
I.622	TST LGB is branded
I.767	TST PD2 Battery Replacement planning for the next door maintenance
I.768	TST PD2 battery weak, replacement recommended soon
I.76A	TST PD2 Magnetic field weak, position magnet closer to sensor
I.822	Feig position encoder is customer coded
I.856	The internal safety edge is tripped because of an WiCab radio problem. • The radio connection of the WiCab system is gone for a short moment during door drive. Possible reasons for this are: • The Distance between mobile and stationary unit is larger than specified • No perfect Orientation of stationary and mobile antenna • The radio link is disturbed by external noise
I.8B0	TST RBA software update is currently in progress (bootloader mode)
I.8B1	Hardware defect detected in TST RBA (flash module defective)
I.970	The set configuration is not supported. e.g. more than 7 inputs set as a push button.
I.A00	There is at least one new and/or still unconfigured device on the CAN or RS485 bus.
I.A01	Poor CAN bus quality during the teach-in process
I.A13	The branding of VEK MNST and door controller was successfully completed.
I.A21	The initialisation operation of the light curtain 1 was successfully completed.
I.A22	The initialisation operation of the light curtain 1 is in progress
I.A23	The branding of the light curtain 1 has been successfully completed.
I.A24	The light curtain 1 has too low a signal quality
I.A31	The initialisation operation of the light curtain 2 was successfully completed.
I.A32	The initialisation operation of the light curtain 2 is in progress
I.A33	The branding of the light curtain 2 has been successfully completed.
I.A34	The light curtain 2 has too low a signal quality
I.A41	The initialisation operation of the light curtain 3 was successfully completed.

No.	Description
I.A42	The initialisation operation of the light curtain 3 is in progress
I.A43	The branding of the light curtain 3 has been successfully completed.
I.A44	The light curtain 3 has too low a signal quality
I.A51	The initialisation operation of the light curtain 4 was successfully completed.
I.A52	The initialisation operation of the light curtain 4 is in progress
I.A53	The branding of the light curtain 4 has been successfully completed.
I.A54	The light curtain 4 has too low a signal quality
I.A63	The customer coding of the MWD BPC Sensor 1 was successfully completed.
I.A73	The customer coding of the MWD BPC Sensor 2 was successfully completed.
I.A83	The customer coding of the MWD BPC Sensor 3 was successfully completed.
I.A93	The customer coding of the MWD BPC Sensor 4 was successfully completed.
I.AB3	UTA 1 was paired with the customer code of the control system
I.AB5	UTA 1 was created with the customer code of the controller UTA 1 Bluetooth Controller is in bootloader mode
I.AC3	UTA 2 was paired with the customer code of the control system
I.AC5	UTA 2 was created with the customer code of the controller UTA 2 Bluetooth Controller is in bootloader mode