

10 Error Code List

Code	Description	Actions to take		
0000h	No Error	No error is pending.		
0001h	Err: X4 Logic Supply Too Low	The logic supply voltage has been too low. The minimal logic supply voltage level is defined through parameter 100Eh. Recommended actions: check your 24V logic power supply.		
0002h	Err: X4 Logic Supply Too High	The logic supply voltage has been too high. The maximal logic supply voltage level is defined through parameter 1010h. Recommended actions: check your 24V logic power supply.		
0003h	Err: X1 Pwr Voltage Too Low	The motor power supply voltage has been too low. The minimal motor supply voltage level is defined through parameter 101Ah. Recommended actions: check your motor power supply, check the wiring, check the sizing of the power supply, add a capacitor too enforce your DC link.		
0004h	Err: X1 Pwr Voltage Too High	The motor power supply voltage has been too high. The maximal motor supply voltage level is defined through parameter 101Bh. Back EMF effects may boost the DC link voltage. Recommended actions: check your motor power supply, check the wiring, check the sizing of the power supply, use a regeneration resistor for power dissipation, add a capacitor too enforce your DC link.		
0005h	Err: X1 RR Not Connected	A regeneration resistor is configured (see parameter 101Dh) but not connected. Recommended actions: connect the regeneration resistor to X1.		
0006h	Err: PTC 1 Sensor Too Hot	The PTC 1 sensor on X4.10 is hot or not connected. Recommended actions: check the temperature, check the wiring		
0007h	Err: Min Pos Undershot	The motor position has been below the minimal position (see parameter 146Eh). Recommended actions: check the configuration, check the PLC program		
0008h	Err: Max Pos Overshot	The motor position has been above the maximal position (see parameter 146Fh). Recommended actions: check the configuration, check the PLC program		
0009h	Err: Ext-Int Sensor Diff Err	The position difference between sensor feedback on X3 and sensor feedback on X12 has been too big. Recommended actions: check sensor wiring, check sensor configuration (count direction, etc.), check parameter 1266h		
000Ah	Fatal Err: X12 Signals Missing	The external sensor is not connected to X12 or the wiring is not ok. Recommended actions: check the wiring		



000Bh	Err: Pos Lag Always Too Big	The motor was not able to follow the demand position. The maximal allowed position difference is defined	
		through parameter 1473h.	
		Recommended actions: check the motor load, check the motor stroke range for possible collisions, check the	
		position controller setup, check the setpoint generation	
		(unreachable speed/acceleration values?), check the motor sizing.	
000Ch	Err: Pos Lag Standing Too Big	The motor was not able to reach the target position or was not able to stay at the target position. The maximal	
	(Not on B1100)	allowed position difference is defined through	
		parameter 1475h.	
		Recommended actions: check the motor load, check	
		the motor stroke range for possible collisions, check the position controller setup, check the motor sizing	
000Dh	Fatal Err:	Over current on X1 detected.	
	X1 Pwr Over Current	Recommended actions: check motor wiring, check	
		motor configuration, for P01-48 type motors: set	
	_	parameter 11F4h to value 0001h	
000Eh		Controller board defective.	
000Fh	Supply Dig Out Missing Err:	Recommended actions: contact support for repair The PTC 2 sensor on X4.11 is hot or not connected.	
000111	PTC 2 Sensor Too Hot	Recommended actions: check the temperature, check	
		the wiring	
0010h	Err:	Servo controller power bridge phase 1+ too hot.	
	Controller Ph1+ Too Hot	Recommended actions: check motor wiring	
0011h	Err: Controller Dh1, Too Het	Servo controller power bridge phase 1- too hot.	
0012h	Controller Ph1- Too Hot Err:	Recommended actions: check motor wiring Servo controller power bridge phase 2+ too hot.	
001211	Controller Ph2+ Too Hot	Recommended actions: check motor wiring	
0013h	Err:	Servo controller power bridge phase 2- too hot.	
	Controller Ph2- Too Hot	Recommended actions: check motor wiring	
0014h	Err:	DC link temp sensor has detected over temperature.	
00451	Controller Pwr Too Hot	Recommended actions: check wiring	
0015h	Err: Controller RR Hot Calc	Regeneration resistor switch hot: Recommended actions: check RR configuration (Turn	
		On level, Resistance, etc.), check RR sizing	
0016h	Err:	Temp sensor on X3 has detected over temperature.	
	Controller X3 Too Hot	Recommended actions: check motor wiring	
0017h	Err:	Temp sensor on controller's PCB board reports core	
004.04	Controller Core Too Hot	being hot.	
0018h	Err: Power Bridge Ph1+	Servo controller power bridge phase 1+ may be defective.	
	Defective	Recommended actions: contact support	
0019h	Err:	Servo controller power bridge phase 1- may be	
	Power Bridge Ph1-	defective.	
	Defective	Recommended actions: contact support	
001Ah	Err:	Servo controller power bridge phase 2+ may be	
	Power Bridge Ph2+ Defective	defective. Recommended actions: contact support	



001Bh		Servo controller power bridge phase 2- may be	
	Power Bridge Ph2- Defective	defective. Recommended actions: contact support	
001Ch		Supply fuse for digital outputs on X6 blown.	
00101	Supply DigOut X6 Fuse	Recommended actions: check X6 wiring, contact	
	Blown	support for repair	
001Dh		Supply X3.3 5V fuse blown. Motor or and/or wiring	
001011	Supply X3.3 5V Fuse Blown	defective.	
		Recommended actions: contact support for controller	
		repair, check motor and wiring, replace motor and	
		motor cables	
001Eh	Err:	Supply X3.8 analog ground fuse blown.	
	Supply X3.8 AGND Fuse	Recommended actions: contact support for controller	
	Blown	repair, check motor and wiring, replace motor and	
		motor cables	
0020h	Err:	Temp sensor reports hot motor.	
	Motor Hot Sensor	Recommended actions: wait until motor has cooled	
		down (until corresponding warning disappears, check	
		load, check the motor configuration, check the setpoint	
		generation (unreachable speed/acceleration values?),	
		check the motor sizing	
0021h	Fatal Err:	Motor hall signals not connected to X3 or motor	
	X3 Hall Sig Missing	defective:	
		Recommended actions: Power down the controller and	
		all power supplies, then reconnect motor, check motor	
00006	Fatal Err:	and wiring, check parameter 1221h.	
0022h	Motor Slider Missing	Motor hall sensors cannot see magnetic field of the slider. The motor position was outside the allowed	
		range defined through the motors ZP and Max Stroke	
		data (see data sheet).	
		Recommended actions: check stroke range, check	
		slider orientation.	
0023h	Err:	Short time motor overload detected.	
	Motor Short Time Overload	Recommended actions: check if motor is blocked,	
		check motor sizing	
0024h	Err:	Regeneration resistor hot calculated.	
	RR Hot Calculated	Recommended actions: check RR configuration (Turn	
		On level, Resistance, etc.), check RR sizing	
0025h	Err:	Sensor Alarm On X12 Occurred.	
	Sensor Alarm	Recommended actions: Check sensor mounting, band	
		contamination or motion speed	
0028h	Err:	Short circuit between phase 1+ and ground detected.	
	Ph1+ Short Circuit To GND	Recommended actions: check motor wiring, check	
00001		motor	
0029h	Err: Dh1 Short Circuit To CND	Short circuit between phase 1- and ground detected.	
	Ph1- Short Circuit To GND	Recommended actions: check motor wiring, check	
00046	F ==:	motor	
002Ah		Short circuit between phase 2+ and ground detected.	
	Ph2+ Short Circuit To GND	Recommended actions: check motor wiring, check motor	
		motor	



002Bh	Err: Ph2- Short Circuit To GND	Short circuit between phase 2- and ground detected. Recommended actions: check motor wiring, check
		motor
Ph1 Short Circuit To Ph2		Short circuit between motor phase 1 and phase 2 detected. Recommended actions: check motor wiring, check
		motor
0030h	Err:	Motor phase 1+ has contact to phase 2+.
	Ph1+ Wired To Ph2+	Recommended actions: check motor wiring, check motor
0031h	Err:	Motor phase 1+ has contact to phase 2
	Ph1+ Wired To Ph2-	Recommended actions: check motor wiring, check motor
0032h	Err:	Motor phase 1+ has no connection to phase 1
	Ph1+ Not Wired To Ph1-	Recommended actions: check motor wiring, check motor
0033h	Err:	Motor phase 2+ has contact to phase 1+.
	Ph2+ Wired To Ph1+	Recommended actions: check motor wiring, check motor
0034h	Err:	Motor phase 2+ has contact to phase 1
	Ph2+ Wired To Ph1-	Recommended actions: check motor wiring, check motor
0035h	Err:	Motor phase 2+ has no connection to phase 2
	Ph2+ Not Wired To Ph2-	Recommended actions: check motor wiring, check motor
0036h	Err: Ph1 Short Circuit To Ph2+	Short circuit between motor phase 1 and phase 2+ detected.
		Recommended actions: check motor wiring, check motor
0037h	Err:	Short circuit between motor phase 1 and phase 2-
	Ph1 Short Circuit To Ph2-	detected.
		Recommended actions: check motor wiring, check motor
0038h		Short circuit between motor phase 2 and phase 1+
	Ph2 Short Circuit To Ph1+	detected.
		Recommended actions: check motor wiring, check motor
0039h	Err:	Short circuit between motor phase 2 and phase 1-
	Ph2 Short Circuit To Ph1-	detected.
		Recommended actions: check motor wiring, check motor
003Ah	Err:	Motor phase U broken.
	Phase U Broken	Recommended actions: check motor wiring, check motor
003Bh		Motor phase V broken.
	Phase V Broken	Recommended actions: check motor wiring, check motor
003Ch	Err:	Motor phase W broken.
	Phase W Broken	Recommended actions: check motor wiring, check motor



0040h	Err:	X4.3 brake driver reports error.		
	X4.3 Brake Driver Error	Recommended actions: check for short circuit on X4.3		
0041h	Err: Dig Out X4.4X4.11 Status	X4.3X4.11 output driver reports error. Recommended actions: check for short circuit on outputs X4.4X4.11 or output configurations.		
0042h	Err: Dig Out X6 Status	X6 output driver reports error. Recommended actions: check for short circuit on outputs X6.		
0044h	Err: X4 Dig Out Defective	Digital outputs on X4 defective. Recommended actions: check X4 wiring, contact support for repair		
0045h	Fatal Err: Motor Comm Lost	Motor communication lost. Recommended actions: Power down and check motor wiring and motor, replace cable and/or motor.		
0046h	Err: PTC 1 Broken	PTC 1 on X4.10 broken or not connected. Recommended actions: Power down and check PTC 1 wiring and resistance.		
0047h	Err: PTC 1 Short To 24V	PTC 1 on X4.10 short to 24V. Recommended actions: Power down and check PTC 1 wiring and resistance.		
0050h	Setup Err: HW Not Supported	Setup error, hardware is not supported by the software. Recommended actions: download correct firmware, contact support		
0051h	Setup Err: SW Key Missing	Software key and access code for special functionality is missing. Recommended actions: Order the SW key with your support together with the serial number of your HW.		
0058h	Runtime Err: ROM write error	Runtime error, MC SW was not able to change parameter value in ROM. Recommended actions: verify PLC is not configuring during this action, contact support		
0060h	Cfg Err: RR Voltage Set Too Low	Configuration error: regeneration resistor turn on/off voltage parameter value is too low. Recommended actions: check parameters 101Eh and 101Fh		
0061h	Cfg Err: RR Hysteresis < 0.5V	Configuration error: regeneration resistor turn on/off voltage parameter values too close to each other. Recommended actions: check parameters 101Eh and 101Fh		
0062h	Cfg Err: Curve Not Defined	Configuration error. Software tried to start a curve that is not defined yet. Action to take: define the curve using the curves service, check if curves were downloaded to controller, check the curve IDs, check the configuration, check the PLC program		
0063h	Cfg Err: Pos Ctrl Max Curr High	Configuration error: Invalid max current setting in control parameters. Recommended actions: check parameters 13A6h and 13BAh, check PLC program		
0064h	Cfg Err (Fatal): No Motor Defined	Configuration error: No motor has been configured yet. Recommended actions: use the motor wizard to configure the motor		



0065h	Cfg Err (Fatal): No Trigger Mode Defined	Configuration error: Digital input X4.6 is configured for trigger input function, but the trigger mode is not defined yet.
0067h	Cfg Err (Fatal): Wrong Stator Type	Recommended actions: configure parameter 170Ch Configuration error: The configured motor type does not match with the connected motor. Recommended actions: configure correct motor type by using the motor wizard, connect an appropriate motor
0068h	Cfg Err (Fatal): No Motor Communication	Configuration error: The controller was not able to establish the communication to the microcontroller on the motor. Older P01 motors don't support motor communication. Recommended actions: check motor wiring, check motor, check the motor configuration, disable communication by using parameter 11FBh if you have an old P01 motor.
0069h	Cfg Err: Wrong Slider	Configuration error: A wrong slider has been configured or slider home position has an invalid value. Recommended actions: reconfigure the motor by using the motor wizard
0080h	User Err: Lin: Not Homed	User error: The PLC program tried to start an action that requires the motor to be already homed, but the motor was not homed. Recommended actions: check the PLC program, do a homing of the motor first
0081h	User Err: Unknown Motion Cmd	User error: The PLC program sent an unknown motion command ID. Recommended actions: check PLC program, check firmware version
0082h	User Err: PVT Buffer Overflow	User error: The PLC program has sent the stream position commands too fast, the buffer had an overflow. Streaming has to be strictly cyclic! Recommended actions: check PLC program, check the fieldbus by using bus monitor tools
0083h	User Err: PVT Buffer Underflow	User error: The PLC program has sent the stream position commands too slowly, the buffer had an underflow. Streaming has to be strictly cyclic! Recommended actions: check PLC program, check the fieldbus by using bus monitor tools
0084h	User Err: PVT Master Too Fast	User error: The PLC program has begun to send PVT streaming command. The commands were too close to each other. The servo controller expects new streaming commands every 2ms to 5ms. Recommended actions: check PLC program, check the fieldbus by using bus monitor tools
0085h	User Err: PVT Master Too Slow	User error: The PLC program has begun to send PVT streaming command. The cycle time between the streaming commands has been too long. The servo controller expects new streaming commands every 2ms to 5ms. Recommended actions: check PLC program, check the fieldbus by using bus monitor tools



0086h	User Err: Motion Cmd In Wrong St	User error: The PLC program has sent a motion command while the controller was not in an appropriate operational state. Most of the motion commands are accepted only in operational state 8 (Operation Enabled). Recommended actions: check the PLC program	
nnx/n	User Err: Limit Switch In High	User error: The motor moved into the Limit Switch In while it was still in the stroke range. Recommended actions: check the PLC program or check homing	
IUUXXN	User Err: Limit Switch Out High	User error: The motor moved into the Limit Switch Out while it was still in the stroke range. Recommended actions: check the PLC program or check homing	
0089h	User Err: Curve Amp Scale Error	User error: The automatic calculated amplitude scale is out of range -2000percent to 2000percent. Recommended actions: check the PLC program or use other curve	
008Ah	User Err: Cmd Tab Entry Not Def	ef Called command Table entry is not defined. Recommended actions: check the PLC program or define Command Table Entry.	



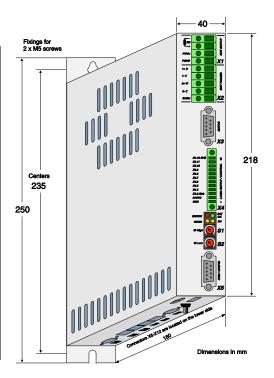
Error Codes

Error 24V OK		ок	Description	
Warn O EN				
ERROR	WARN	EN		
OFF	Warning	Operation Enabled	Normal Operation. Warnings and Operation Enabled are displayed	
On	● ~ 2Hz 015 x Error Code High Nibble	• ~ 2Hz 015 x Error Code Low Nibble	Error: The Error Code is shown by a blink code with "WARN" and "EN". The Error Byte is divided into Low and High Nibble. "WARN" and "EN" are blinking together. The error can be acknowledged. (ex.: WARN blinks 3x, EN blinks 2x; Error Code = 32h	
• ~ 2Hz	● ~ 2Hz 015 x Error Code High Nibble	● ~ 2Hz 015 x Error Code Low Nibble		
• ~ 4Hz	● ~ 2Hz 015 x Error Code High Nibble	● ~ 2Hz 015 x Error Code Low Nibble	System Error. Please reinstall firmware or contact support.	
● ~ 0.5Hz	● ~ 0.5Hz	On	Signal Supply 24V too low: The error and warn LEDs blink alternating if the signal supply +24V (X4.2) is less than 18VDC.	

The meaning of the Error Codes can be found in the Usermanual_MotionCtrl_Software_E1100 and the user manual of the loaded interface software. These documents are provided together with LinMot-Talk configuration software and can be downloaded from WWW.linmot.com.

Physical Dimension

E1100 Single axes controller			
Width	mm (in)	40 (1.6)	
Height	mm (in)	250 (9.9)	
Height without fixings	mm (in)	218 (8.6)	
Depth	mm (in)	180 (7.1)	
Weight	Kg (lb)	1.5 (3.3)	
Case	IP	20	
Storage Temperature	°C	-2540	
Transport Temperature	°C	-2570	
Operating Temperature	°C	040 at rated data (UL) 4050 with power derating	
Relative humidity		95% (non-condensing)	
Max. Case Temperature	°C	65	
Max. Power Dissipation	W	30	
Distance between Controllers	mm (in)	20 (0.8) left/right 50 (2) top/bottom	



() dimensions in inch