

K2 Swing Gate Opener Controller

User Manual



Version: 2.1

Safety Precautions

The following describes the correct use of the product and provides information for preventing hazards and property loss. Read this manual carefully before operating the device, follow it strictly during use, and keep it in a safe place after reading.

Operating Environment Requirements

- Transport, operate and store the device within the permitted humidity and temperature ranges.
- Do not allow any liquid to flow into the device.
- Install the device in a well-ventilated location. Never block the ventilation openings of the device.
- Do not subject the device to heavy pressure, strong vibration, or immersion.
- When transporting the device, pack it in its original factory packaging or material of equivalent quality.

Operation and Maintenance Requirements

- Do not disassemble this device by yourself.
- Use only accessories or attachments specified by the manufacturer, and have installation and repair performed by qualified service personnel.

Product Features

- Safe: Powered by a 24 V DC power supply for personal safety.
- Energy-saving: Standby power consumption of less than 2 W; supports motors with a maximum power of 250 W.
- Adjustable speed: Opening and closing speeds can be adjusted independently.
- Smooth operation: Multi-stage speed design provides stable operating performance.
- Multiple protections: motor overcurrent, overload and short-circuit protection, motor fault protection, and reverse-polarity power protection.

Specifications

Item	Specification
Power Supply	DC 24 V $\pm$ 10%, 10 A
Motor Power	Max. 250 W
Standby Power Consumption	< 2 W
Opening/Closing Speed	Adjustable 1%-100%
Operating Ambient Temperature	-35 °C to 75 °C
Operating Ambient Humidity	30%-80% (non-condensing)

Common Functions:

Menu	Function	Menu	Function
P-00	Opening Speed	P-01	Closing Speed
P-06	End-of-Opening Speed	P-07	End-of-Closing Speed
P-08	End-of-Opening Deceleration Angle	P-09	End-of-Closing Deceleration Angle
P-13	Remote Learning	P-14	Auto-Close Delay
P-16	Learn Open Position	P-18	Obstruction Reversal Sensitivity
P-19	Obstruction Reversal Force	P-20	Obstruction Reversal Angle
P-23	Opening Direction	P-27	Factory Reset
P-31	Sensor Port Function Setting 1	P-32	Sensor Port Function Setting 2
P-39	Electric Lock Type	P-64	Double-Door Type
P-65	Unequal-Leaf Door Opening Delay	P-66	Unequal-Leaf Door Waiting Angle
P-71	Single-Button Toggle Function	P-78	Push-to-Open Function
P-79	Reverse Push Force on Opening	P-85	Relay Signal Output Module Function

Advanced Functions:

Menu	Function	Menu	Function
P-02	Mid-Opening Deceleration Angle	P-03	Mid-Closing Deceleration Angle
P-04	Opening Acceleration Time	P-05	Closing Acceleration Time
P-10	Closing Brake Angle	P-11	Closing Brake Duration
P-12	Initial Open/Close Speed Setting	P-15	Access-Signal Opening Delay
P-17	Closing Double-Confirmation Function	P-21	Hold-Open Mode
P-22	Motor Type	P-24	Open/Close Buffer Time
P-25	Stop Buffer Time	P-26	Remote Adding Method
P-28	Motor Hold Force	P-29	Motor Hold Time at Fully-Open
P-30	Motor Hold Time at Fully-Closed	P-33	Auto-Test Function
P-35	Closing Ignore-Sensor Position	P-36	Opening Ignore-Sensor Position
P-37	Sensor Buzzer Frequency	P-38	Access-Signal Valid Time
P-40	RS-485 Baud Rate	P-41	RS-485 Device ID
P-42	RS-485 Master/Slave Mode	P-43	RS-485 Active Status Transmission
P-44	Opening Priority	P-45	Ambient Light Intensity
P-46	Light Intensity Threshold	P-47	Delayed Light-On
P-48	Delayed Light-Off	P-49	Open/Close Timeout
P-54	Bluetooth Settings	P-55	Power-Loss Auto-Operation Voltage
P-56	Power-Loss Auto-Operation Mode	P-57	Digital Display Mode

P-58	Forced-Open Auto-Close Count	P-59	Motor Overcurrent Protection Value
P-62	Output Power Limit	P-67	Electric Lock Engage Angle
P-68	Opening Obstruction Protection Value	P-72	Light Strip Output Mode
P-73	Alarm Light Operating Mode	P-74	Alarm Light Flash Frequency
P-75	Forced-Open Alarm Function	P-76	Traffic-Light Mode
P-77	Enhanced Obstruction Reversal Sensitivity		

Control Panel Button Instructions

The controller has 4 buttons. From left to right they are “OPEN/+”, “CLOSE/–”, “MENU” and “STOP/CANCEL”. These 4 buttons are used to configure the various parameters of the controller.

“OPEN/+”: In normal operation, press this button to open the gate. After entering the setting mode, use this button to increase the menu item and to adjust the set value upward. In parameter setting mode, each short press increases the value by 1. A long press increases the value continuously to the maximum, then continues from the minimum value upward again. If the long press is held longer, the continuous increment accelerates.

“CLOSE/–”: In normal operation, press this button to close the gate. After entering the setting mode, use this button to decrease the menu item and to adjust the set value downward. In parameter setting mode, each short press decreases the value by 1. A long press decreases the value continuously to the minimum, then continues from the maximum value downward again. If the long press is held longer, the continuous decrement accelerates.

“MENU”: This button has 3 functions: 1) In normal operation mode, press and hold this button for 3 seconds to enter the menu selection mode; the LED displays “P-XX”, and you can press “OPEN/+” or “CLOSE/–” to select a menu item. 2) In menu selection mode, short-press “MENU” to enter the parameter setting mode. 3) After the parameter is set, short-press it to save and exit.

“STOP/CANCEL”: In normal operation, this button performs the STOP function. In menu selection mode, it exits the setting mode. In parameter setting mode, pressing this button exits the current mode and returns to the menu selection mode (i.e., returns to the previous menu level), and the value being set is discarded. If no button is pressed within 60 seconds in the menu selection or parameter setting mode, the buzzer gives one long beep and the controller returns to normal operation mode.



Display

The control board has a 4-digit LED display used to show the gate operating status, parameters, menu items and other information. After power-on, the controller runs in low-power mode, and the LED display brightness is dim. Pressing any button switches the LED display to normal operation mode with high brightness. If no button is pressed, the display enters low-power mode after 60 seconds and dims to reduce power consumption. If no button is pressed for 2 minutes, the LED display turns off, entering the lowest power-consumption state.

Parameter Settings

Press and hold the “MENU” button for 3 seconds to enter the parameter setting mode; the LED displays “P-XX”. Short-press or long-press the “OPEN/+” or “CLOSE/-” buttons to select a menu item (a short press changes the value by 1, while a long press changes it continuously). Press “MENU” again to enter the setting of the selected item; press “STOP/CANCEL” to return to the previous level or exit the setting. After the parameter has been set, you must press the “MENU” button to confirm for it to take effect. Parameters set by pressing “STOP/CANCEL” will not take effect. If no button is pressed within 60 seconds, the buzzer on the control board gives one long beep, the controller exits the setting mode and returns to normal operation mode.

Quick-Operation Modes

- Hold-open mode: After the gate is fully open, press and hold the “STOP” button on the remote control for 5 s to enter hold-open mode; press “CLOSE” to cancel hold-open mode.
- Disable presence-sensor opening mode: After the gate is fully closed, press and hold the “CLOSE” button on the remote control for 5 s to disable the presence-sensor opening function.
- Enable presence-sensor opening mode: After the gate is fully open, press and hold the “OPEN” button on the remote control for 5 s to enable the presence-sensor opening function.

Jumper Cap Settings

The control board has 2 jumper caps, used respectively to select the magnetic-lock voltage and the access-control opening signal type. Detailed text labels on the board indicate each location that requires a jumper.

- 12 V / 24 V: Select the supply voltage according to the power specification of the magnetic lock in use.
- Relay signal / Voltage signal: Select according to the output signal of the access control device. A relay signal is a digital signal; if the access control device outputs a relay open signal, select relay opening. A voltage signal is a 5-24 V voltage output from the access control device.

Controller Function List

Menu	Function	Default	Range	Description
P-00	Opening Speed	35	10-100	The larger the value, the faster the speed; the smaller the value, the slower the speed.
P-01	Closing Speed	35	10-100	Same as the opening speed.
P-06	End-of-Opening Speed	15	1-80	The opening ends at this speed. The larger the value, the faster the speed. If the speed is too high, the gate may sway when the opening ends; reduce the value in this case.
P-07	End-of-Closing Speed	15	1-80	The closing ends at this speed. The larger the value, the faster the speed. If the speed is too high, the gate may collide during closing; reduce the value in this case. If the gate fails to close completely, increase the value.
P-13	Remote Learning	0	0-60	Remote learning: Entering P-13 displays the number of remotes currently stored. Press the OPEN, CLOSE and STOP buttons on the remote in sequence for learning. Keep pressing each button until the control board beeps once, then release and press the next button. Learning is complete when the control board gives one long beep or the number displayed on the digit display increments by one; you can then learn the next remote or press CANCEL to exit. Remote deletion: In this menu, press “+” or “-” to change the value of a learned remote, then press the “MENU” button to confirm and delete the learned remote corresponding to that value.
P-14	Auto-Close Delay	5	0-255	After the gate opens, it closes automatically after the specified dwell time. If set to 0, the gate does not close automatically. Unit: 1 second.
P-16	Learn Open Position	0	0-0	Entering the setting displays L-00; the controller automatically seeks the closing limit position and stops when it is reached, then displays L-01. Manually press the “OPEN/CLOSE” button to find the fully-open position, then press confirm to save the open position.
P-18	Obstruction Reversal Sensitivity	5	1-40	The duration for which an obstruction must be present before it is recognized as an obstruction.

				(Unit: 0.05 s)
P-19	Obstruction Reversal Force	30	1-100	The resistance magnitude recognized as an obstruction. The reversal condition is: the resistance reaches the P-19 value and persists for the P-18 time, and then the gate reverses (opens).
P-20	Obstruction Reversal Angle	10	0-90	When the closing angle is smaller than this option's angle, no obstruction reversal occurs. 0 disables this function.
P-23	Opening Direction	0	0-1	Range: 0-1, default: 0. 0 = left-opening gate, 1 = right-opening gate.
P-27	Factory Reset	0	0-255	This option has three functions: clear remotes, partial factory reset and full factory reset. To prevent accidental operation, a specific value must be set and then the "MENU" button pressed to complete the operation. 5: Clear remotes; 10: Factory reset (remotes and motor type are not reset); 15: Full factory reset.
P-31	Sensor Port Function Setting 1	2	0-7	Range: 0-7, default: 2. This parameter applies to the presence-sensor port IN1. Different values provide different functions. 0: Disabled; 1: Presence detection - closes immediately when no person is detected; 2: Presence detection - closes after the opening-hold time elapses when no person is detected; 3: External signal inputs are accepted only after fully closed; not detected during closing; 4: OPEN function - the "ACCESS+" and "ACCESS-" terminals are active; 5: OPEN function - the "ACCESS+" and "ACCESS-" terminals are inactive; 6: Close; 7: Stop.
P-32	Sensor Port Function Setting 2	2	0-7	Range: 0-7, default: 2. This parameter applies to the presence-sensor port IN2. Different values provide different functions. 0: Disabled; 1: Presence detection - closes immediately when no person is detected; 2: Presence detection - closes after the opening-hold time elapses when no person is detected; 3: External signal inputs are accepted only after fully closed; not detected during closing; 4: OPEN function - the "ACCESS+" and "ACCESS-" terminals are active; 5: OPEN function - the "ACCESS+" and "ACCESS-" terminals are inactive; 6: Close; 7: Stop; 8: External Hall limit mode.

P-39	Electric Lock Type	0	0-3	Range: 0-3, default: 0. Different values correspond to different lock types. 0: Electromagnetic lock - locks when powered, unlocks when de-energized; 1: Electric bolt lock - unlocks when powered, locks when de-energized; 2: Electric control lock - unlocks when powered, no action when de-energized, locks automatically when locked in position; 3: Mechanical lock - unlocks when powered; the gate relies on its inertia to lock during closing.
P-64	Double-Door Type	0	0-6	Range: 0-4, default: 0, where: 0: Single door; 1: Master leaf of a double-leaf door - the other leaf must be set to 2; 2: Slave leaf of a double-leaf door - the other leaf must be set to 1; 3: Master leaf of an unequal-leaf door - the other leaf must be set to 4; 4: Slave leaf of an unequal-leaf door - the other leaf must be set to 3; 5: Master leaf of an interlocking door - the other leaf must be set to 6; 6: Slave leaf of an interlocking door - the other leaf must be set to 5. Double-leaf doors, unequal-leaf doors and interlocking doors are used in pairs: one side is the master leaf and the other is the slave leaf.
P-65	Unequal-Leaf Door Opening Delay	10	0-100	Range: 0-100, default: 10. Unit: 0.1 s. This parameter is effective only when P-64 is set to 3 (master leaf of an unequal-leaf door). During opening, the master leaf opens first and the slave leaf opens after the set delay; during closing, the master leaf closes first and the slave leaf closes after the set delay.
P-66	Unequal-Leaf Door Waiting Angle	15	0-90	During the first limit-seeking after power-on, the master and slave leaves first open to the angle set by P-66, then start closing to seek the limit. For the master leaf of an unequal-leaf door, the master board begins closing only after the slave leaf is fully closed. During normal opening/closing, if the master leaf reaches the angle set by P-66 but the slave leaf has not fully closed, the master leaf stops and waits; after the slave leaf is fully closed, the master leaf closes again.
P-71	Single-Button Toggle Function	2	0-2	0: Not multiplexed. 1: Multiplexed as the PUSH function. An open triggered by this port synchronizes the open signal to the slave with RS-

				485 device ID 2, and all close signals are also synchronized to the slave with device ID 2. 2: Multiplexed as the PUSH function; the signal is changed to falling-edge triggering, or a signal held for 3 seconds triggers it. When a long press of 3 seconds triggers an open, the open signal is synchronized to the slave with RS-485 device ID 2, and all close signals are also synchronized to the slave with device ID 2. (PUSH interface description: when the master board is in the fully-open state, triggering PUSH closes the gate; when the master board is in any other state, triggering PUSH opens the gate.)
P-78	Push-to-Open Function	0	0-10	0: Push-to-open disabled. 1-10: Enables the push-to-open function, which takes effect after the gate is fully closed; the smaller the value, the more sensitive it is. (When this function is active, the P-58 forced-open auto-close function is disabled.)
P-79	Reverse Push Force on Opening	0	0-60	When opening is triggered while fully closed, the gate first briefly reverses in the closing direction, then opens. This helps resolve cases where some locks jam when opened directly, causing the opening to fail. 0: Function disabled; other values: reverse force, the larger the value, the greater the force.
P-85	Relay Signal Output Module Function	0	0-3	0: Function disabled; 1: Normally-closed output when fully open/closed; 2: Pulse output when fully open/closed; 3: Open/close status output.

Common Function Parameters

Advanced Function Parameters

Menu	Function	Default	Range	Description
P-02	Mid-Opening Deceleration Angle	60	10-90	Sets the position where deceleration begins during opening. Expressed in degrees: the gate fully closed is 0° and fully open is 90°. This parameter indicates the angle at which the gate

				begins to decelerate during opening.
P-03	Mid-Closing Deceleration Angle	40	0-80	Sets the position where deceleration begins during closing. Expressed in degrees: the gate fully closed is 0° and fully open is 90°. This parameter indicates the angle at which the gate begins to decelerate during closing.
P-04	Opening Acceleration Time	100	0-255	The time required to accelerate from standstill to the opening speed set by P-00 (the larger the value, the longer the time). (Unit: 0.01 s)
P-05	Closing Acceleration Time	100	0-255	The time required to accelerate from standstill to the closing speed set by P-01 (the larger the value, the longer the time). (Unit: 0.01 s)
P-10	Closing Brake Angle	0	0-30	From this position, closing continues at the closing end speed. If closing vibration is large, reduce this value. 0 disables braking.
P-11	Closing Brake Duration	0	0-255	The braking time during closing. Unit: 0.01 s. A braking point is set at the closing brake angle. If closing vibration remains large even when the closing end speed and the closing buffer start position are both adjusted to their limits, the gate usually has large inertia; a brake time can be set. The default is 0, i.e., no braking.
P-12	Initial Open/Close Speed Setting	35	10-80	After the control board is powered on, a speed is required to seek the home position. If the speed after power-on is too high or too low, it can be set with this parameter. The larger the value, the higher the speed.
P-15	Access-Signal Opening Delay	1	0-100	Range 1-100, unit: 0.1 s, default: 1. The time to wait for the magnetic lock to release.
P-17	Closing Double-Confirmation Function	20	0-60	The main purpose of this parameter is to apply additional force to confirm closing after the gate is fully closed, ensuring that the magnetic lock can engage. 0: Stops directly after fully closed and enters the fully-closed state. >0: After closing to the fully-closed position, continues to apply closing force for a second confirmation of closing. The larger the value, the greater the closing force for the second confirmation. Increase this value if the gate fails to lock.
P-21	Hold-Open Mode	0	0-3	0: Normal remote mode. (To temporarily enter hold-open mode in normal remote mode: when

				the set value is 0, after the gate is fully open, press and hold the remote STOP button for more than 5 seconds to temporarily enter hold-open mode; the buzzer beeps for 2 seconds. Press CLOSE to exit hold-open mode and close the gate.) 1: Remote “OPEN” enters hold-open mode; presence-sensor signals are not processed until “CLOSE” is manually pressed, and the gate remains open. 2: Manual mode - all opening actions of the master board enter hold-open mode; presence detection does not close the gate. 3: Disable hold-open mode.
P-22	Motor Type	0	0-3	Range: 0-3. Because the Hall polarity of the motor, the reduction ratio of the gate mechanism, and the left/right-opening configuration of the gate differ, this parameter is used to accommodate various types of motors and gates. 1: Side-mounted gate operator (H3L, H9); 2: Horizontal-mounted gate operator (H5L).
P-24	Open/Close Buffer Time	60	10-255	The buffer time when transitioning from opening to closing, and from closing to opening. If the time is too short, the instantaneous current may be excessive; a slightly longer time gives a smoother transition. (Unit: 0.01 s)
P-25	Stop Buffer Time	60	10-255	The time required for the motor to go from motion to stop when STOP is pressed during opening or closing. If too large, the gate stops very slowly but smoothly; if too short, the instantaneous current may be excessive. (Unit: 0.01 s)
P-26	Remote Adding Method	0	0-4	0: Press OPEN, CLOSE and STOP in sequence to complete learning; 1: Press any one of them to complete learning.
P-28	Motor Hold Force	255	0-30	When the motor stops outside the open/close limit areas, the controller outputs control to lock the gate, which may cause the motor and the board to overheat. It is recommended to set this value according to the actual conditions and not too large. When set to 255, the locking power is automatically adapted.
P-29	Motor Hold Time at Fully-Open	0	0-255	How long the motor remains held after the gate is fully open. (Unit: seconds.) When set to 255, the

				motor remains held continuously after fully open without timing.
P-30	Motor Hold Time at Fully-Closed	0	0-255	How long the motor remains held after the gate is fully closed. (Unit: seconds.) When set to 255, the motor remains held continuously after fully closed without timing.
P-33	Auto-Test Function	0	2-255	The auto-test interval. 0 disables auto-test; it is used for automatic and burn-in testing. After testing is complete, set this parameter to 0 to release auto-test. Short-press the "OPEN" button to start.
P-34	Counting Mode	1	0-4	0: No counting of openings; closes when a person passes. 1-3: Counts opening signals up to a maximum of 1-3; the count is decremented when presence is triggered, and the gate closes when presence disappears and the count reaches 0. 4: Counts opening signals up to a maximum of 255; the count is decremented when presence is triggered, and the gate closes when presence disappears and the count reaches 0.
P-35	Closing Ignore-Sensor Position	10	0-45	When the closing angle is lower than this value, presence-sensor signals are not processed and the gate closes directly.
P-36	Opening Ignore-Sensor Position	20	0-80	During opening, presence triggering is invalid when the gate angle is smaller than the set angle.
P-37	Sensor Buzzer Frequency	1	0-10	The buzzer beep frequency when presence is triggered. 0: Off; 1: One short beep; 2-10: Continuous beeping at the specified frequency; the larger the number, the faster the beeping.
P-38	Access-Signal Valid Time	10	1-255	The duration for which the open, close, stop, access-control and presence signals are considered valid. (Unit: 0.01 s)
P-40	RS-485 Baud Rate	4	0-4	Sets the baud rate of the control board: 0: 9600; 1: 19200; 2: 38400; 3: 57600; 4: 115200.
P-41	RS-485 Device ID	0	0-63	The address of this control board on the RS-485 bus.
P-42	RS-485 Master/Slave Mode	0	0-1	Sets the master/slave mode of the control board: 0: Slave mode; 1: Master mode.
P-43	RS-485 Active Status Transmission	0	0-1	When set to 1, whenever the gate opens/closes (raises/lowers), the controller automatically sends the gate status command.

P-44	Opening Priority	0	0-80	0: All control signals have equal priority in any state; 1: Opening has the highest priority; when opening, other signals have no effect.
P-45	Ambient Light Intensity	0	0-0	The current ambient light intensity; the smaller the value, the brighter it is.
P-46	Light Intensity Threshold	30	0-255	When the ambient light intensity is greater than this value, the light strip terminal signal is output.
P-47	Delayed Light-On	10	0-255	The delay before outputting the light strip signal when the ambient light is greater than P-46. (Unit: seconds)
P-48	Delayed Light-Off	250	0-255	The delay before turning off the light strip output when the ambient light is lower than P-46. (Unit: seconds)
P-49	Open/Close Timeout	30	6-40	Sets the opening/closing timeout. If the gate does not reach the position within the set time, it pauses automatically and reports an opening timeout warning (Err5) or closing timeout warning (Err6). (Unit: seconds)
P-54	Bluetooth Settings	0	0-255	—
P-55	Power-Loss Auto-Operation Voltage	0	0-30	0: Disabled; 1: 21 V triggers automatic open/close operation. This function requires a backup power supply and is used together with the P-56 setting. It is recommended to set it to 20.
P-56	Power-Loss Auto-Operation Mode	1	0-4	Sets the power-loss auto-operation option. When P-55 is not 0, this determines how the gate responds when the supply voltage drops below the P-55 value: 0: No action; 1: Open automatically; 2: Close automatically.
P-57	Digital Display Mode	2	0-2	0: Displays gate status. 1: During opening/closing, the digital display shows the drive voltage (unit V) or drive current (unit A); in operating mode, short-press the "MENU" button to switch between displaying current and voltage. 2: Displays motor position.
P-58	Forced-Open Auto-Close Count	255	0-255	When fully closed, if the gate is pushed manually beyond 10°, the controller automatically triggers closing. After the manual push/close count exceeds this value, automatic closing is no longer triggered. Each normal open/close cycle resets the accumulated auto-close count. When set to 255, no counting is performed and this function

				remains always active.
P-59	Motor Overcurrent Protection Value	70	20-180	The overcurrent protection value. When the gate's operating current exceeds this value, the gate stops automatically. If overcurrent protection occurs during closing, the gate is treated as an obstruction reversal. (Unit: 0.1 A)
P-62	Output Power Limit	100	20-100	The maximum limited output power (%) during gate operation. (Non-professionals should operate with caution.)
P-67	Electric Lock Engage Angle	20	0-30	The angle at which the magnetic lock begins to engage during closing.
P-68	Opening Obstruction Protection Value	60	0-255	The resistance threshold for recognizing an obstruction during opening.
P-72	Light Strip Output Mode	0	0-1	0: Lighting mode; 1: Alarm light mode.
P-73	Alarm Light Operating Mode	0	0-3	0: Alarm light off; 1: Flashes during opening; 2: Flashes during closing; 3: Flashes during both opening and closing.
P-74	Alarm Light Flash Frequency	0	0-2	0: 2 Hz alternating on/off; 1: 1 Hz alternating on/off; 2: 0.5 Hz alternating on/off.
P-75	Forced-Open Alarm Function	0	0-1	0: Disabled; 1: Enabled.
P-76	Traffic-Light Mode	0	0-3	0: Traffic-light mode 1 - green when the opening angle is greater than 60°, red when closing begins. 1: Traffic-light mode 2 - green when fully open, red in all other states. 2: Position-status output - green when fully open, red when fully closed, both lights off in other states. 3: Position-pulse output - green for 1 second when fully open, red for 1 second when fully closed.
P-77	Enhanced Obstruction Reversal Sensitivity	0	0-1	Makes the minimum trigger threshold of the P-19 obstruction reversal force more sensitive. 0: Disabled; 1: Enabled.

Common Fault Codes

Error Code	Cause
Err0	When clearing remotes or restoring factory defaults, the correct confirmation value must be set; if the confirmation value is incorrect, Err0 is reported.
Err1	Reserved.
Err2	Braking back-EMF voltage too high warning; can be resolved by reducing the operating speed.
Err3	Opening stall. Possible causes: opening speed too low, or end-of-opening speed too low. Increase the opening speed and the end-of-opening speed.
Err4	Closing stall. Possible causes: closing speed or end-of-closing speed too low. Increase the closing speed or the end-of-closing speed.
Err5	Opening timeout - the opening time exceeded P-49. Increase the opening speed and the end-of-opening speed.
Err6	Closing timeout - the closing time exceeded P-49. Increase the closing speed and the end-of-closing speed.
Err7	Incorrect motor type selection; change to the correct type via P-22.
Err8	Reserved.

Display Screen Messages

Display	Meaning
IDLE	Motor not connected, or motor Hall fault. Possible cause: loose wiring.
STOP	Motorized gate fully closed.
CLOS	Motorized gate closing.
OPEN	Motorized gate opening.
HOLD	Motorized gate fully open.
LOCK	Motorized gate locked.
FLET	Hold-open mode.

Controller Wiring Diagram

