Yolin YL81C-B E-bike Display User Manual

Contents

Yolin

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Product name and model
Intelligent LCD for e-bike; model: YL81C.

Specifications

- 36V/48V power supply
- Rated working current 15mA
- Maximum working current 30mA
- Leakage current at power-off <1uA
- Working current at the supply controller end 50mA Working temperature -20 60
- Storage temperature -30 70

Appearance and dimensions

Fig. 3-1 Picture of Display 81C

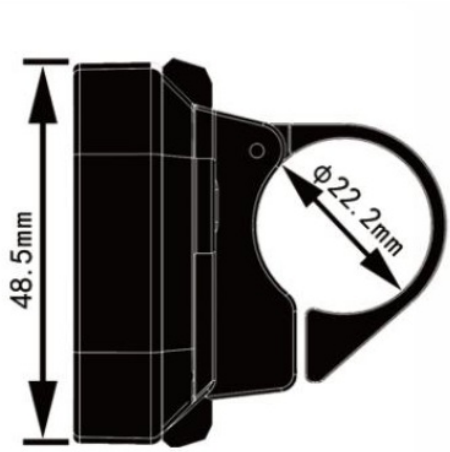


Fig. 3-2 Top View of Display 81C Dimensions

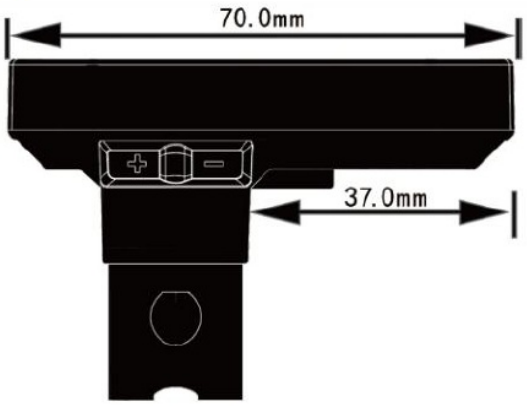


Fig. 3-3 Side View of Display 81C Dimensions

Function overview and functional area layout

Function Overview

Display YL81C provides a variety of functions to meet the rising needs of users, including:

- Battery level indicator
- Assist level adjustment and indication
- Headlight indicator
- Speed indicator (including real-time speed, maximum speed (MAXS) and average speed (AVG))
- Distance indicator (including ODO and trip distance (Trip))
- Error code indicator
- Bluetooth connection indicator (reserved)
- Parameter setting function

Functional area layout

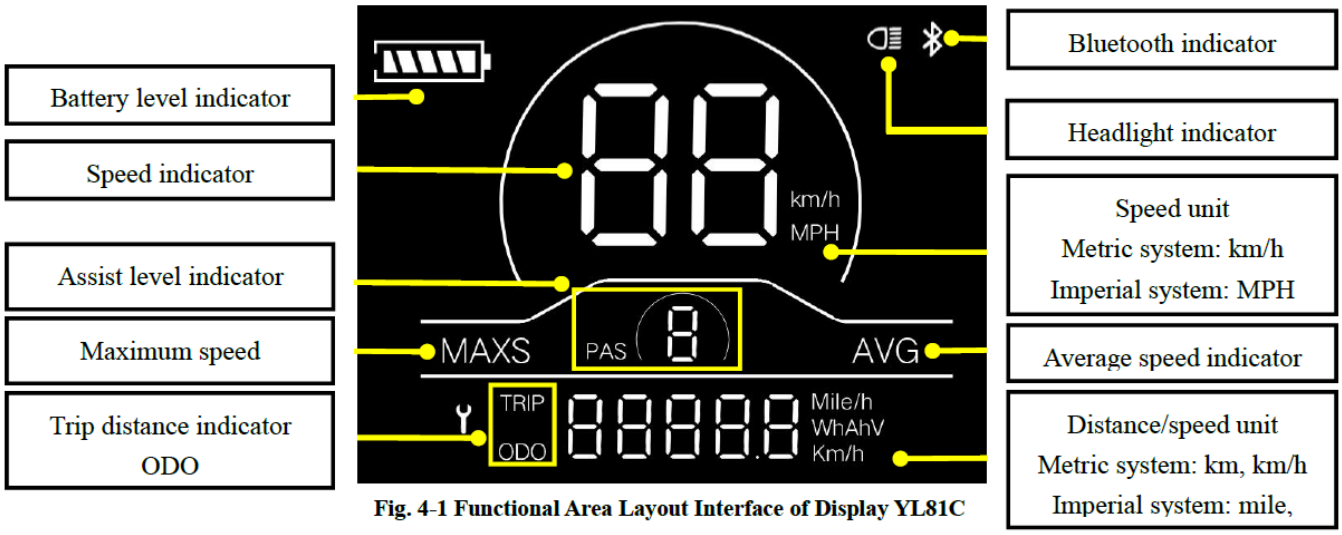


Fig. 4-1 Functional Area Layout Interface of Display YL81C

Button definitions

There are three buttons on the operating unit of display YLSIC, i., the on/off button the plus button and the minus button .

General operation

Power on/off

By pressing and holding the button, the display will start to work and the working power supply of the controller will be turned on. In the power-on state, by pressing and holding the button, your e-bike will be powered off. In the power-off state, the display will no longer use the battery power, and its leakage current will be less than luA. If your e-bike is not used for more than 10 minutes, the display will be automatically powered off.

Display interface

After the display is turned on, the display will show the real-time speed (km/h) and the trip distance (km) by default. By pressing the button, the information displayed will be switched between the trip distance (km),

ODO (km), maximum speed (km/h) and average speed (km/h). When the distance reaches 9999.9 km. it will be automatically reset to zero.

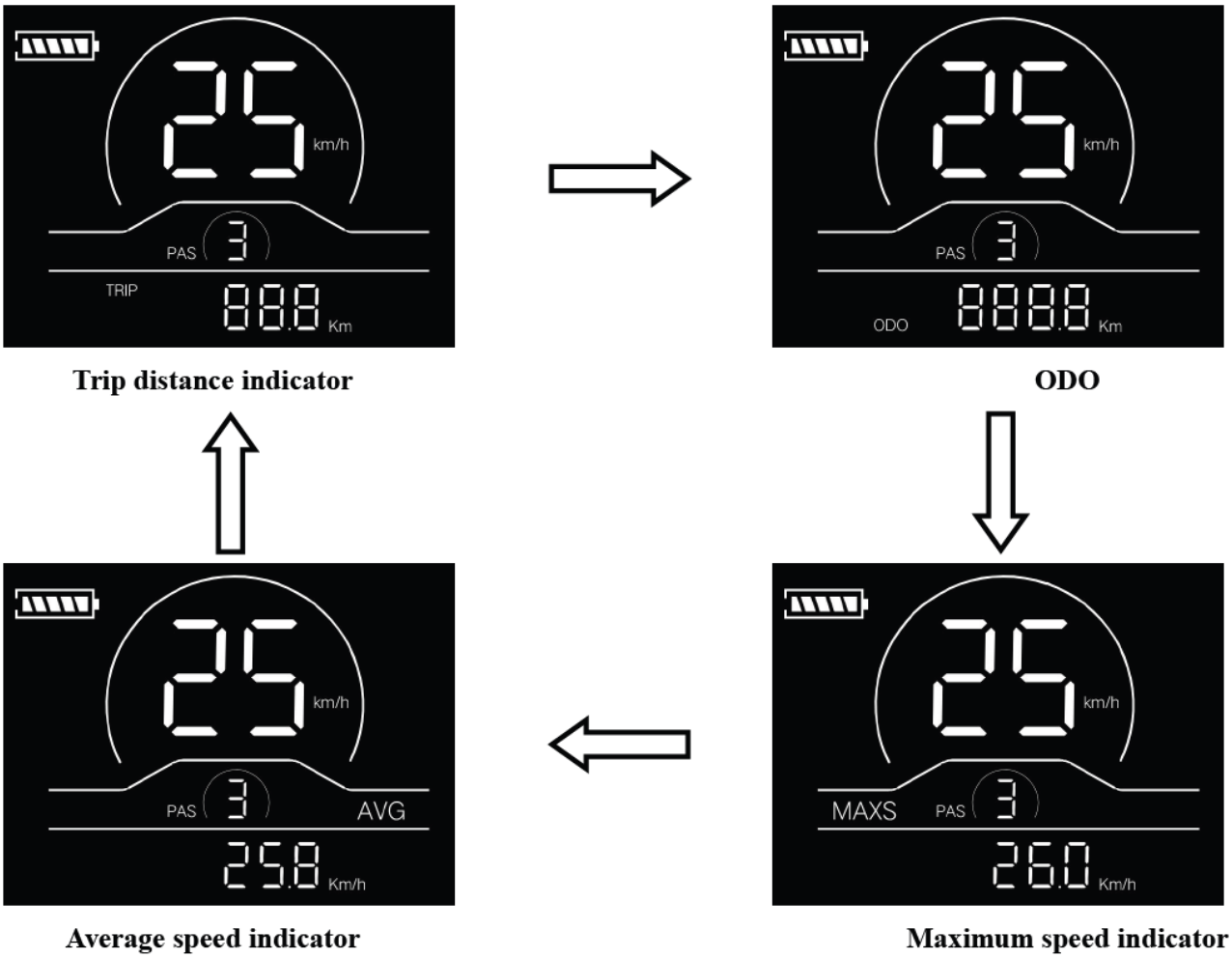


Fig. 5-1 Display Interface Switching

Push assistance

By pressing and holding the button, the electric push assistance mode will be enabled. Your e-bike will run at a constant speed of 6km/h. The display will show level P. By releasing the button power output and return to the state before push assistance. , your e-bike will immediately stop power output and return to the state before push assistance.

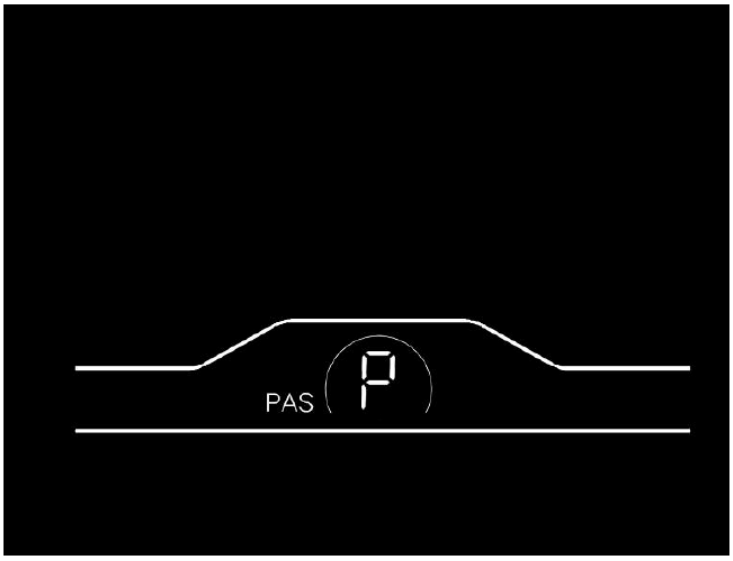


Fig. 5-2 Push Assistance Indicator Interface

Headlight on/off

By pressing and holding the button the controller will turn on the headlights and the display backlight will turn dark. By pressing and holding the button again, the controller will turn off the headlights and the display backlight will resume the luminance.

Fig. 5-3 Headlight-on Indicator Interface

Assist level selection

By pressing the button / the e-bike assist level will be switched to change the motor output power. The Assist levels available for the display include: levels 0-3, levels 1-3, levels 0-5, levels 1-5, levels 0-7, levels 1-7, levels 0-9 and levels 1-9.

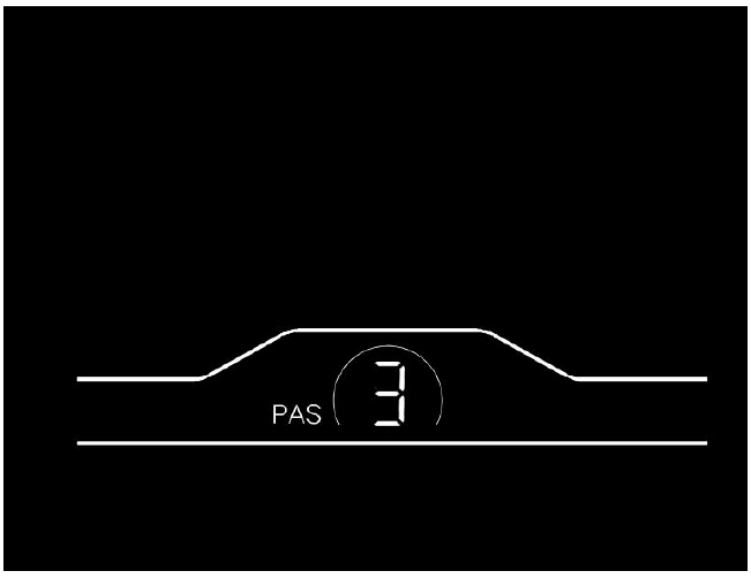


Fig. 5-4 Assist Level Switching Interface

Battery level indicator

The battery level indicator consists of five segments. When the battery is fully charged, the five segments will be all on. In case of Undervoltage, the outline of the battery indicator will flash, which means the battery has to be charged immediately.

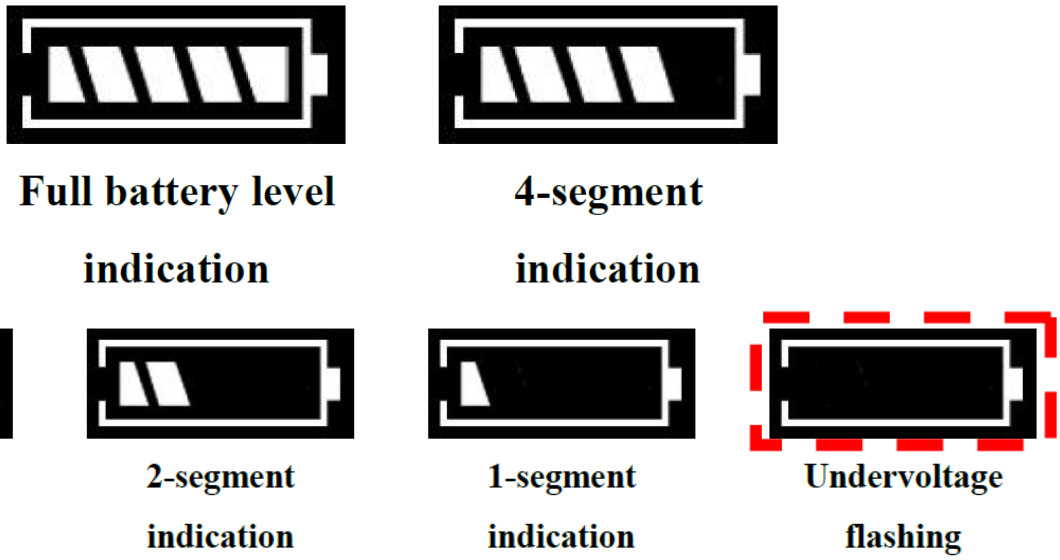


Fig. 5-5 Battery Level Indicator Interface

Error code indicator

When a fault occurs in the electronic control system of your e-bike, the display will automatically indicate the error code in the distance area in the format of E0. Detailed definitions of error codes are shown in Schedule 1.

Fig. 5-6 Error Code Indicator Interface

When an error code appears on the display interface, please conduct troubleshooting in time. Otherwise, your e-bike will not work normally.

General setting

All parameters can only be set when your e-bike stops. The steps for the general setting are as follows: In the power-on state when the display shows a speed of 0,

Trip distance reset

Press and hold the buttons at the same time for more than 2 seconds to reset the trip distance.

Factory reset

dEF refers to factory reset. dEF-n represents not to restore factory settings, and dEF-y represents to restore factory settings. Press and hold the buttons U and # at the same time for more than 2 seconds to enter the factory reset interface, and press the / button A to select a parameter.

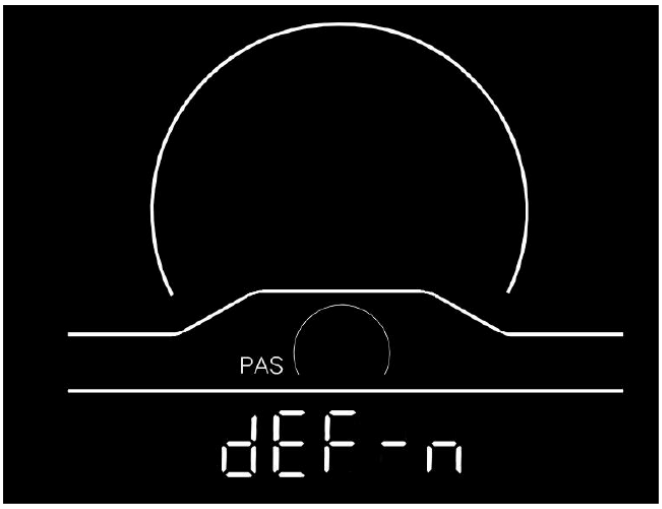


Fig. 6-1 Factory Reset Interface

Custom setting

All parameters can only be set when your e-bike stops.

The steps for custom setting are as follows:

1. In the power-on state, when the display shows a speed of 0, Press and hold the buttons at the same time for more than 2 seconds to enter the selection interface of custom setting options;
2. Press the button to switch the selection interface of general setting options, and press the button to enter the parameter modification interface;
3. Press the button / – for parameter selection;
4. Press the button to save the parameter and return to the selection interface of custom setting options;
5. Press and hold the button to save the parameter and exit the selection interface of custom setting options.

Rated voltage setting

Pl refers to the rated voltage setting option. Available values include 36V and 48V. Press the button to enter the parameter modification interface. Press the button / for parameter selection. Press the button to save the parameter and return to the selection interface of general setting options.

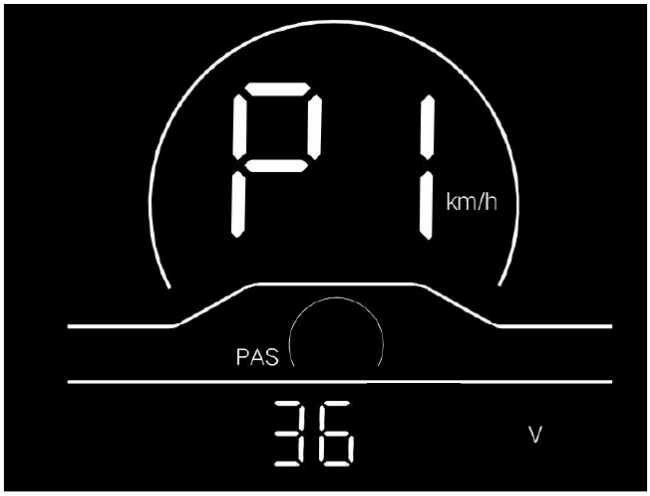


Fig. 7-1 Rated Voltage Setting Interface

Wheel diameter setting

P2 refers to the wheel diameter setting option. Available parameters include 8-32 inches. Press the button on the parameter modification interface. Press the button / for parameter selection. Press the button parameter and return to the selection interface of general setting options. to enter to save the parameter and return to the selection interface of general setting options.

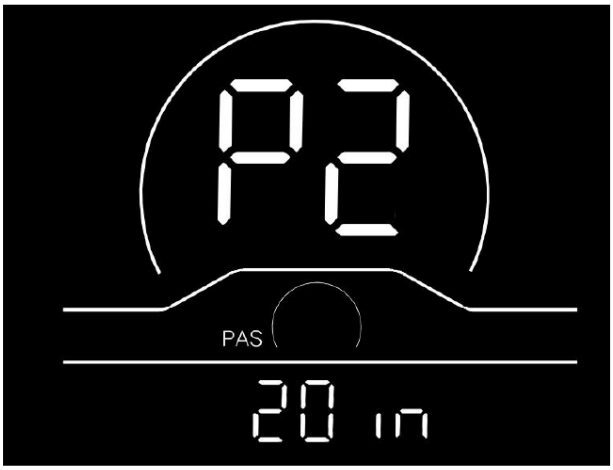


Fig. 7-2 Wheel Diameter Setting Interface

Speed limit setting

P3 represents the speed limit setting option. The adjustable range is 10~40km/h. Press the button parameter modification interface. Press the button / for parameter selection. Press the button parameter and return to the selection interface of general setting options. to enter the to save the parameter and return to the selection interface of general setting options.

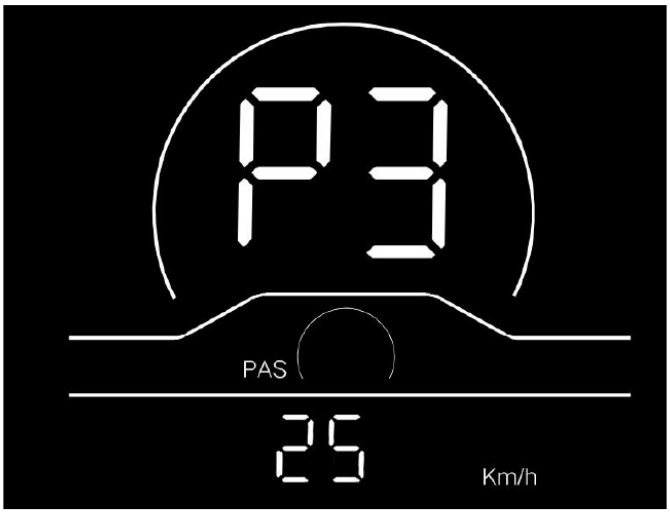
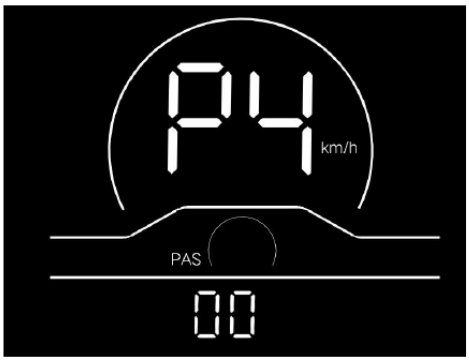


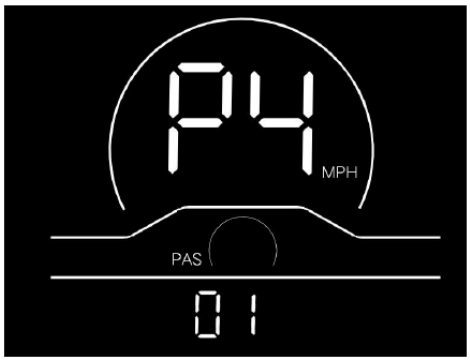
Fig. 7-3 Speed Limit Setting Interface

Metric/imperial system setting

P4 refers to the metric/imperial system setting option. 00 represents the metric system, and 01 represents the imperial system. Press the button to enter the parameter modification interface. Press the button / for parameter selection. Press the button to save the parameter and return to the selection interface of general setting options.



Metric system indicator interface



Imperial system indicator interface

Fig. 7-4 Metric/imperial System Setting Interface

Speed sensor setting

P5 refers to the speed sensor setting option, which can be set according to the number of magnetic heads installed on the wheels of your e-bike. The setting range is 1-63. Press the button to enter the parameter modification interface. Press the button / for parameter selection. Press the button to save the parameter and return to the selection interface of general setting options.

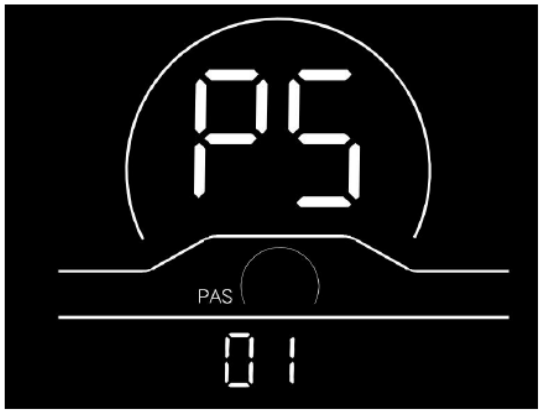


Fig. 7-5 Speed Sensor Setting Interface

Current limit setting

P6 refers to the current limit setting. The adjustable range is 1-25A. Press the button to enter the parameter modification interface. Press the button / for parameter selection. Press the button to save the parameter and return to the selection interface of general setting options.

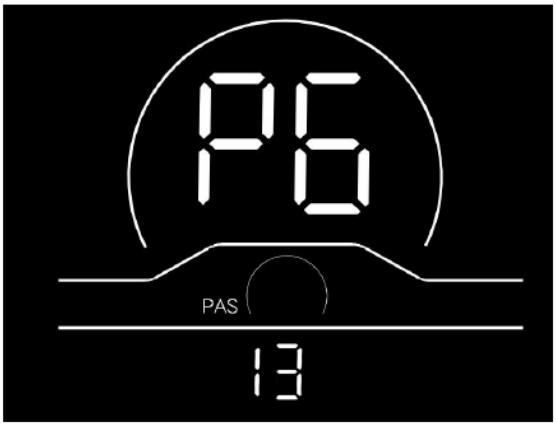


Fig. 7-6 Current Limit Setting Interface

Assistance sensor setting

P7 refers to the assistance sensor setting option, where the number of steel magnets of the assistance magnetic disk can be set. The adjustable range is 5, 6, 7, 8, 9, 10 and 12. Press the button to enter the parameter modification interface. Press the button / for parameter selection. Press the button to save the parameter and return to the selection interface of general setting options.

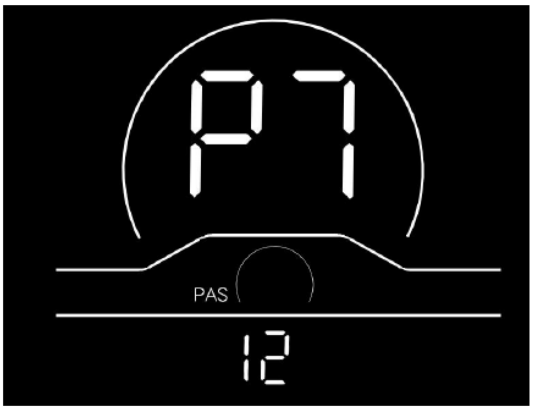


Fig. 7-7 Assistance Sensor Setting Interface

Power-on password setting

P8 refers to the power-on password setting option. PSd-Y means that a power-on password is required, and PSd-N means that no power-on passwords are required. The default value of the display is PSd-N. Press the button to enter the verification interface, and press the button / to enter the selection interface. If PSd-N is selected, press the button to return to the selection interface of custom setting options; If PSd-Y is selected, press the button to enter the password setting interface. If you don't want to change the password, press and hold the button to exit the custom setting interface. If you want to change the password, press the button for cursor movement and the button / for figure selection, and then press the button to retrieve the selection interface of custom setting options.

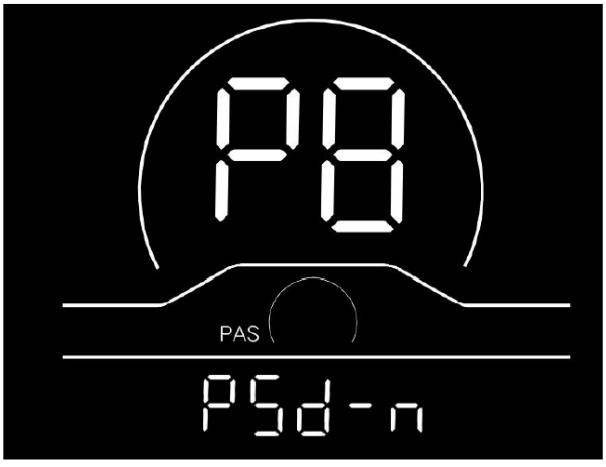


Fig. 7-8 Power-on Password Setting Interface

Quality commitments and warranty scope

Warranty information

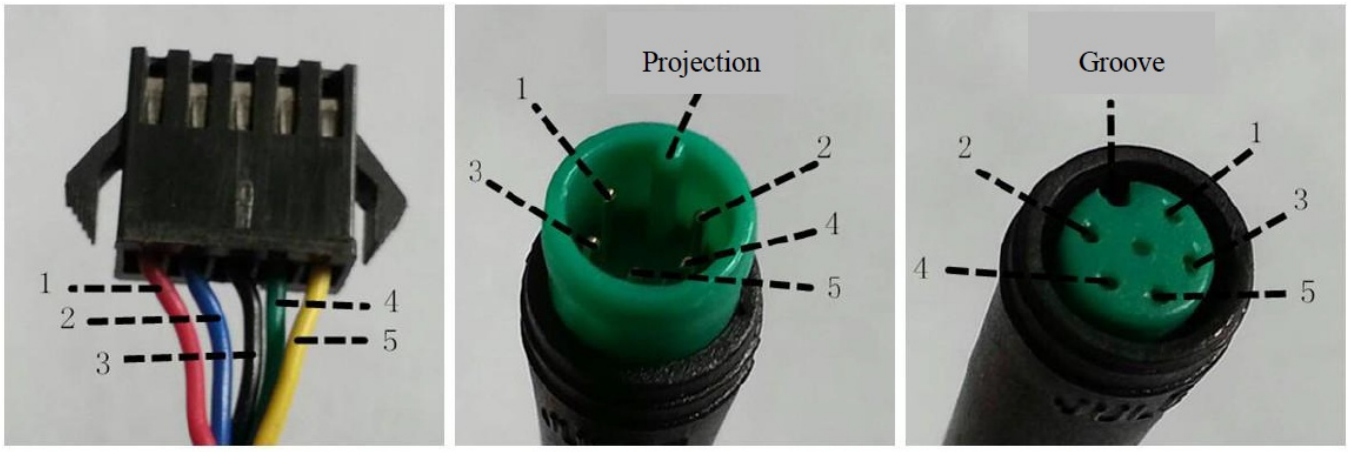
For the faults caused by the quality of the product under normal use, the Company will be responsible for providing

a limited warranty during the warranty period. The warranty period of the product is within 12 months from delivery.
8.2

- Non-warranty scope
- The enclosure is opened
- The connector is damaged
- The enclosure is scratched or damaged after delivery
- The outgoing line of the display is scratched or broken
- Faults or damage caused by force majeure (such as fires, earthquakes, etc.) or natural disasters (such as lightning strikes, etc.)
- The warranty period has expired

Outgoing line connection diagram

Wiring sequence of standard connector



Connecting terminal to the controller **Leading-out terminal of display** **Connecting terminal**

Fig. 9-1 Outgoing Line Connection Diagram

Table 9-1 Wiring Sequence of Standard Connector

Standard wiring sequence	Standard wire colour	Function
1	Red (VCC)	The power cord of the display
2	Blue (Kp)	The power control line of the controller
3	Black (GND)	The ground wire of display
4	Green (RX)	Data receiving line of display
5	Yellow (TX)	The data transmission line of the display

The outgoing lines of some products adopt waterproof connectors, and users cannot see the outgoing line colour inside the wire harnesses.

Considerations

Please use it safely, and do not plug or unplug the display when it is powered on. Please avoid bumping as far as possible. Please do not alter the background parameter settings of the display at will, otherwise, normal riding cannot be guaranteed. If the display fails to work normally, it should be repaired as soon as possible. Due to product upgrades of the Company, part of the displayed contents or functions of the product you bought may be different from the manual, depending on the actual model.

Schedule 1 Error Code Definitions

Error codes for protocols YL-01 and YL-02:				
Error codes	Definition		Error codes	Definition
E001	Controller Abnormality		E004	Throttle Abnormality
E002	Communication Abnormality		E005	Brake Abnormality
E003	Motor Hall Signal Abnormality		E006	Motor Phase Abnormality
Error codes for protocols YL-05, KDS and YL-J:				
Error codes	Definition		Error codes	Definition
E021	Current Abnormality		E024	Motor Hall Signal Abnormality
E022	Throttle Abnormality		E025	Brake Abnormality
E023	Motor Phase Abnormality		E030	Communication Abnormality

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References

- **User Manual**