

Contents [[hide](#)]

- [1 BYD K3CH Smart Access Controller](#)
- [2 Product Usage Instructions](#)
- [3 Installation location](#)
- [4 The main parameters](#)
- [5 Product Termination Connector Pin Definition](#)
- [6 FCC WARNING](#)
- [7 Frequently Asked Questions](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)

BYD

BYD K3CH Smart Access Controller



Product Usage Instructions

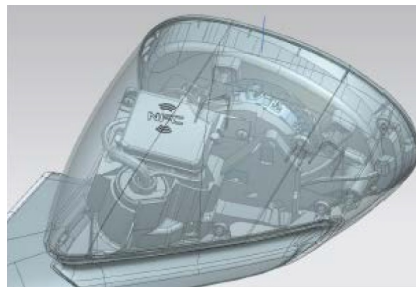
Usage:

1. Ensure the smart access controller is securely installed in the external rearview mirror.
2. The controller receives NFC-related signals for analysis.
3. Sends analyzed signals to the left body domain controller through CAN for processing.
4. The NFC sensing distance ranges from 0-5cm, with a minimum distance of 2.75cm.
5. Operate the smart access controller with a stable 5V power supply.

As an important part of the vehicle end of the smart access system, the smart access controller integrates the NFC-related signal acquisition and identity authentication and related signal processing . Receive the NFC-related signals for analysis, and send it to the left body domain controller through CAN for processing.

Installation location

Installed inside the external rearview mirror



The main parameters

Operating Temperature	-40°C to +85°C
operation Frequency	13.56MHZ $\pm$ 7K
Modulation Type	ASK
NFC Sensing distance	0-5cm The longest distance is not less than 2.75cm

Operating Voltage	5V
Operating Current	<200mA
Protection Class	IP6K7
CANFD	500K

Product Termination Connector Pin Definition

pin number	port name	port definition	Harness connection	signal type	Steady state operating current/A	power	Remark
1	power	VBAT	Connect to the left domain controller pin	Power twisted pair, Twisted with pin2	<1A	5v	Orange line
2	GND	GND	GND	GND twisted pair, Twisted with pin1	<1A		two-color (Yellow-green) line
3	CAN1	CANFD 1-H	Connect to Smart access network	CANFD signal twisted pair, Twisted with pin4	<0.1A		Pink line

4	CAN2	CANFD 1-L	Connect to Smart access network	CANFD signal twisted pair, Twisted with pin3	<0.1A		purple line
5	CAN3	CANFD 2-H	reserve	CANFD signal twisted pair, Twisted with pin6			Yellow line
6	CAN4	CANFD 2-L	reserve	CANFD signal twisted pair, Twisted with pin5			Grey line

Instruction:

NFC: The product is located in inside the external rearview mirror of the vehicle. Users can use the smart card or a registered smartphone approach the product to receive the NFC-related signals for analysis, and send it to the left body domain controller through CAN for processing, finally realize the control of the door switch.

FCC WARNING

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body:
Use only the supplied antenna.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Frequently Asked Questions

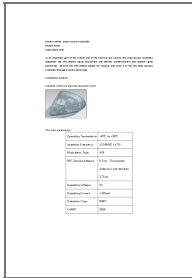
- **Q: What should I do if the smart access controller is not detecting NFC signals?**

A: Check the installation location and ensure it is properly positioned inside the external rearview mirror. Verify the power supply is stable at 5V.

- **Q: Can the smart access controller be used in extreme temperatures?**

A: Yes, the smart access controller can operate in temperatures ranging from -40°C to +85°C.

Documents / Resources



[BYD K3CH Smart Access Controller \[pdf\]](#) User Manual
2A5DH-K3CH, 2A5DHK3CH, K3CH Smart Access Controller, K3CH, Smart Access Controller, Access Controller, Controller

References

- [User Manual](#)

■ BYD
🔑 2A5DH-K3CH, 2A5DHK3CH, Access Controller, BYD, controller, K3CH, K3CH Smart Access Controller, Smart Access Controller

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

[Post Comment](#)

Search:

[Search](#)

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.