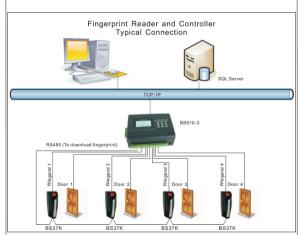
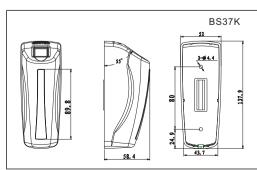


▶ Features

- Support up to 1900 and 9500 fingerprint storage capacity, matching time < 1 second.
- Each user able to enroll up to 10 finger for backup
- Fingerprint templates auto renew feature. When live fingerprint data changes is detected (e.g. skin peeling), controller will automatically renew the template data with the current capture data.
- Adjustable security level. FAR is adjustable up to 1/100,000,000.
- Rapid matching features to increase fingerprint identification speed up to 10 times.
- Operation Mode: Valid Fingerprint Only or Card + Fingerprint will output the predefined Card ID in wiegand format .
- Support build-in reader module include EM and Mifare, card reader for Card + Fingerprint operation.
- Wiegand output to connect with all BS controller series.
- LED and Buzzer output.





Functional List

Function Description Operation Mode Support Fingerprint Only, Card + Fingerprint. Output Mode Card ID: Wiegand 26/34 Connect to Controller Connect to all BS controller series via wiegand interface Standalone Fingerprint Enrollment Download fingerprint directly from PC or via controller using RS485 (except single door controller) Online Download Fingerprint template Fingerprint Verification 1-5 Level, Default is 2. The higher the level, the more secure it will be but matching time will be longer Security Level Able to set up to 6 levels. The higher the number, matching will be faster and will also increase the FRR rate. Fast Matching Mode Lightings Condition Able to setup for Indoor or Outdoor usage Image Quality Able to setup fingerprint image quality during enrollment Sensor sensitivity level Able to setup the sensor sensitivity level to the fingerprint image. Enrollment Mode Able to select whether to enroll finger with one or two template. Auto Scan Fingerprint auto scan operation at all time

▶ Technical Specification

Parameter	Description
CPU	16 bits
Fingerprint Sensor	500 dpi optical sensor
Fingerprint Capacity	Support1900 or 9500 templates.
Identification time	< 1 seconds
False Acceptance Rate(FAR)	Adjustable between 1/10,000 ~ 1/100,000,000
Equal Error Rate (EER)*	< 0.1%
No. of finger enroll per user	Up to10
Wiegand Output	1
Serial Port	Connect to PC via RS-485
Baud Rate	1200~19200 bps. Default is 19200 bps
Controller ID Setting	001~255. Default is 1
Buzzer	1, audible sound able to distinguish valid and invalid finger
LED	Dual color LED
Power Supply	9~30VDC, 300mA
Operating Temperature	-10 ~ 50 °C
Dimension	138 X 52 X 58 mm
Casing	ABS flame-resistant

*EER means "Equal Error Rate" which is an error rate when FAR is equal to FRR In our module, FAR can be controlled by setting "security level" parameter, 1/10,000 to 1/100,000,000. FRR varies with each FAR. For example, when setting FAR at 1/100,000 as default, FRR is roughly

Model Selection

Model	Description
BS37K-XXX	Fingerprint Reader
BS37K-XXX-E	Fingerprint Reader, build-in EM Card reader, range > 5cm
BS37K-XXX-M	Fingerprint Reader, build-in Mifare Card reader, range > 2.5cm

If need to purchase fingerprint controller with 9500 templates, please append (9500) behind the above model (e.g. BS37K-XXX(9500)).