

Harmony XB5S – biometric switch FAQ

Simply reliable. Simply available.



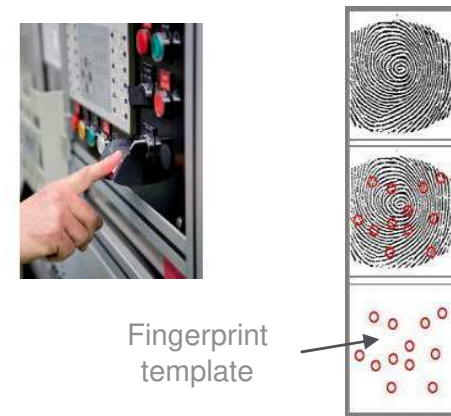
Property of Schneider Electric

Life Is On

Schneider
Electric

How does Harmony XB5S biometric switch work?

- XB5S range allows to actuate a function, based on the recognition of the fingerprint of those users who are entitled to carry out this function.
- The Harmony XB5S biometric switch stores a database of fingerprint templates of authorized people.
- When an access is required, the biometric switch compares the fingerprint put on the sensing zone with this database.
- If the fingerprint read on the sensor is recognized as being part of the stored database of fingerprint template of authorized people, then:
 - XB5S1/2/3/4 biometric switches activate the output
 - XB5S5 biometric switch sends a signal to a Schneider Electric Magelis HMI, thus resulting in the display of a dedicated profile.



The biometric switch records fingerprint templates. This template is then compared to the fingerprint put on the reader.

The fingerprint template is a set of points.

It does not allow to re-create the fingerprint image.

XB5S Biometric switch panorama

	 XB5S1/2 Stand-alone biometric switch	 XB5S3/4 Stand-alone USB biometric switch	 XB5S5 HMI-dedicated biometric switch
Output	Bistable or Pulse	Bistable or Pulse	Access to data of HMI
Record process management	Directly on the product. No need for any other device.	On a PC with XB5S Soft (free software) Allow to visualize the records	On HMI with VijeoDesigner
Number of access rights	1: ON - OFF	1: ON - OFF	Several access groups managed by VijeoDesigner
Traceability of actions	-	-	Performed via VijeoDesigner
Number of potential users	Up to 100 users with 2 fingerprint templates each	Up to 200 users with 2 fingerprint templates each	Up to 200 users with 2 fingerprint templates each
Operation temperature	- 5 to + 50 °C		
Degree of protection	IP 65 and NEMA 12		
Certification	UL, CSA, GOST, and CE		

Life Is On

Schneider
Electric

Recommendations about General Data Protection Regulation application

The General Data Protection Regulation (GDPR) (EU) 2016/679 is a regulation in EU law on data protection and privacy for all European individuals. It also addresses the export of personal data outside the EU.

If you need to comply with the European General Data Protection Regulation (GDPR, Schneider Electric recommends implementing all those specific rules of utilization:

 XB5S1/2 Stand-alone biometric switch	 XB5S3/4 Stand-alone USB biometric switch	 XB5S5 HMI-dedicated biometric switch
Before installing the biometric switch, implement a process which requests systematically to the involved personal their written authorization of the use of their fingerprint template.		
After installation, to reduce the risk of physical attack against the biometric switch, restrict the use of Harmony XB5S biometric switch for indoor applications, and in areas which are accessible by your staff only; and regularly check that the biometric switch's hood has not been mechanically damaged.		
	Considering Harmony XB5SSoft software, to be used specifically for XB5S3/4 devices, and to reduce the risk of malicious cyber-access to biometric data: install the software and its configuration, including the database of fingerprint templates, in a secured and hardened environment, that is a hard disk area which is encrypted, not connected to any network and on which an updated antivirus is running; archiving the database of fingerprint templates should be prohibited.	Because the operator terminal is connected to a network, the device cannot comply by design, with GDPR.

Life Is On

Schneider
Electric