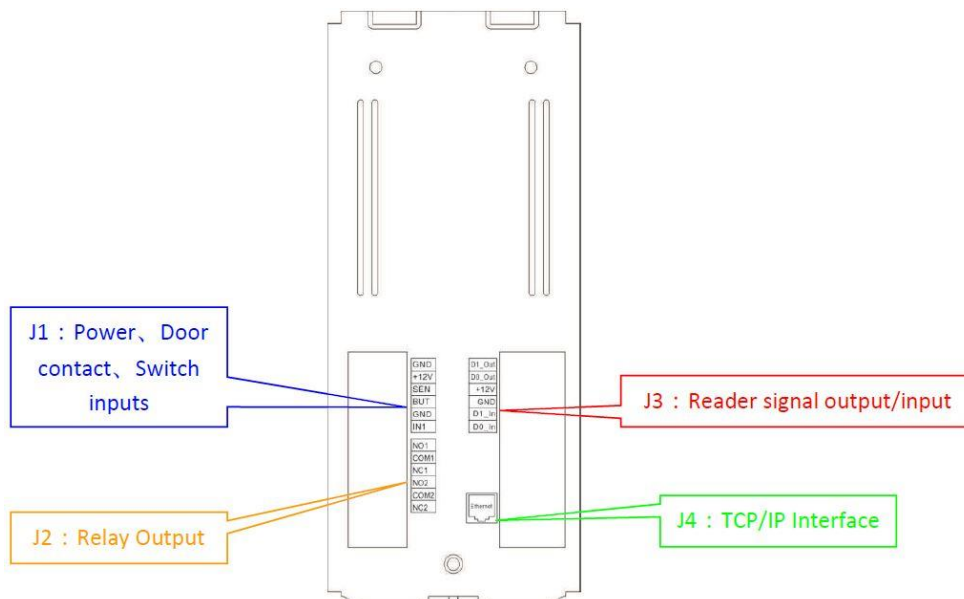# Biometric Fingerprint Reader

Quick Start Guide

(1) Introduction

BEM FCKS can be used as a simple Stand Alone Access Controller or connected to high end access control systems using its TCP/IP port. When connected to Watch*NET* Access Control system the software can search this unit as a Biometric Controller and almost all functions applicable to the standard controller works with this unit. The unit reports all the data back to the controller without the need of a Wiegand connection between this unit and the controller.

WAB-P-FCKS

(2) Wiring

Icon	No.	Connection	Definition	Icon	No.	Connection	Definition
J1	1	GND	Power Supply	J3	13	D1_Out	Reader Output
	2	+12V			14	D0_Out	
	3	SEN	Door Sensor		15	+12V	Reader Input
	4	BUT	Rex Button		16	GND	
	5	GND	GND– Sen/But/Aux		17	D1_In	
	6	IN1	Aux Input		18	D0_In	
J2	7	NO1	Lock Relay 1	J4	19	RJ45	TCP/IP Interface
	8	COM1					
	9	NC1					
	10	NO2	Aux Output				
	11	COM2					
	12	NC2					

J1 : Power、Door contact、Switch inputs

J3 : Reader signal output/input

J2 : Relay Output

J4 : TCP/IP Interface

(3) Cable Requirements

Power cable: 18 AWG 7 Strand Bare Copper; 2 Conductors
Locks: 18 AWG 7 Strand Bare Copper; 2 or 4 conductors
Door Contact: 22 AWG 7 Strand Bare Copper; 2 Conductors
Reader In/Out: 22 AWG 7 Strand Bare Copper 3 Individual twisted pairs

(4) **Wiegand Outputs**

Standard 26/34 Wiegand bit format

(5) **Power**

Required working voltage: **12VDC**

Standby current: <u><</u>**150mA**

Working current: <u><</u>**200mA**

(6) Powering Fingerprint Reader

1. When powered up reader beeps 1-time and you will see display image.
2. To connect the fingerprint reader into the software please refers to WAB-BEM-FCKS manual.

(7) **Troubleshooting**

If the reader does not recognized a card or tag or does not turn on please refer to below table

Possible causes	Solutions
Incorrect cabling	Verify wiring, see (2) for proper wiring
No response on flashing a card (indicator off, buzzer no beeping	Power problem(Check power supply) Invalid card type (use supported card)
Fingerprint or card information missing	Register FP/Card in PC (Connect to PC first)
Cannot open door by flashing card or FP	Strikes not powered up (check strikes power supply) Invalid Card/FP (register your card/FP)
Door opens when using fingerprint but not card	Check Private Authentication mode on personnel information should be Card/Fingerprint

Note: if any solutions above did not work please contact WatchNET Access Technical Support phone number +1-866-843-6865 or visit our website @ www.watchnetaccess.com

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