

A large, detailed fingerprint graphic is positioned in the lower right quadrant of the page, partially overlapping the text below. The ridges of the fingerprint are rendered in a light gray color.

MICROLATCH PRODUCTS

BIOFOB

Microlatch BIOFOB™ takes fingerprint products and solutions to the next level of security and convenience. BIOFOB™ ensures the user is identified before the RF communication is activated. This product has the capability to control 4 independent devices within a single zone area, or transmit 1 or 4 different wiegand numbers. BIOFOB can optionally contain an integrated NFC (Near Field Communication) chip or IC, which is enabled with a positive finger verification. Similarly, BIOFOB will only transmit an 'access granted' signal if the presented finger is identified as one enrolled in the encrypted internal database. This product is patented worldwide and offers flexible connectivity options via RF communications to compatible Microlatch Access Controllers.



BIOFOB

SPECIFICATIONS

Operating Voltage	3.6VDC x 2, 7.4 VDC input
Charging Voltage	9VDC 200mA max input
Battery Type	LIR 2032 Re-Chargeable Lithium Cell x 2
Current Consumption	80 mA imaging @ 9VDC, 0 mA standby
Low Battery Warning (Red LED)	4.5VDC
Fingerprint Templates	Maximum 30, 5 utilised
Operation Cycle	Less than 2 seconds (1 template)
Operating Frequency	433.92, 315, 868 Mhz, SAW Resonator Locked (+/- 75khz)
Transmission Modulation	AM ASK
Number of Channels	Total 4 (1 channel per each button)
Transmission Security	Keeloq™ Code Hopping Technology
Number of Users	Up to 5 Fingerprint Templates Built-in Storage
RF Range	Typical 50 metres (Environment Dependant)
Touchchip™ Sensor Life	Minimum 1 million reads
False Accept Rate	0.01%
False Reject Rate	0.1%
Operating Temperature	-15 °C to +50 °C
Safety	EMC Tested and Approved. CE, C-Tick & FCC Compliance. Complies with AS/NZS 4268:2003, AS/NZS 4251.1:1999



Swipe BIOFOB

Options with:

- * Wiegand Output
- * eProx Tag
- * iClass Tag
- * Mifare Tag
- * EM Tag

BIOFOB + IC

Microlatch released a major enhancement to BIOFOB™ Rolling Code long range RF transmission capability. The BIOFOB (plus standard metal keyfobs) now have the capacity to incorporate a passive IC or access / payment tag. The addition of the tag into BIOFOB offers a biometrics identification of the user, both for physical card reader access, online to financial information or WEB payments, as well as NFC (Near Field Communication) applications. This technology extension to Microlatch Keyfob and BIOFOB products offers a generational change for all traditional access and payment systems, creating a secure and multi-use capability to the Microlatch RF transmitters.



The New Bluetooth 'Bio-Button™' Mobile Security System

Microlatch introduced a system that will conveniently and effectively shut down internet fraud, at the same time create a convenient all in one, secure mobile phone (or mobile device) solution to access control, mobile banking, online shopping, home automation, alarm systems, computer and network logins and any number of customised access or login scenarios.

This innovative, patented, three factor security approach using biometrics to provide positive ID in conjunction with mobile phones using a bluetooth interface will allow users to harness the processing power of the modern mobile device in a convenient yet secure form.

User controlled and 'user friendly', this method of ensuring positive ID via a biometric 'Bio-Button™' wirelessly paired and tethered' to a mobile device resolves the security risks inherent with keeping the 'registered users' biometric data and digital keys stored on such devices.

Bluetooth Proximity Field



Now we can offer biometric security in the form of a **FACTOR4™** 'card'.



BIOCARD



NEW PRODUCTS

BIO-14S



BIO-15S



Wall Mount BIOFOB



MicroLatch.

WIRELESS FINGERPRINT



BIO-14



BIO-15



CCF-15

Additional Housing Box
Supplied for CCF

BIO-14 (surface mount) & BIO-15 (flush mount)

Microlatch Wireless Stand-Alone, self contained biometrics readers. These products are patented world-wide and offer flexible and secure RF Rolling Code communications, plus optional Wiegand operation when combined with Microlatch Wiegand receivers. These self contained fingerprint activated products can operate such devices as electric locks, garage doors, security & alarm systems and many more. Up to 30 fingerprint units may be stored within the onboard user database.

SPECIFICATIONS

Operating Voltage	6 VDC IN
Current Consumption	160µA Standby; 87mA Maximum
Operating Frequency	433.92, 315, 868 MHz
	SAW Resonator Locked (+/-74KHz)
Transmission Modulation	AM ASK
Transmission Security	Keeloq™ Code Hopping Technology
RF Range	Typical 50m (Environment dependant)
Touchchip™ Sensor Life	Minimum 1 million reads
False Acceptance Rate	0.01%
False Rejection Rate	0.1%
Operating Temperature Range	-10 °C to +40 °C
Certifications	C-Tick, CE and FCC Approvals

CCF-15

Microlatch's CCF (Comination Card and Finger) solution is another global patented technology platform solution. This product is designed to rapidly transition the market to higher security identification of the individual through biometrics and specifically fingerprint recognition. The traditional infrastructure for access and payment systems does not change! Microlatch again maintains the theme of 'simple and secure', whilst offering high security upgrade options for customers; seamlessly and at a fraction of the traditional costs. The significant advantage of Microlatch CCF is that it identifies the card or credential holder; existing systems only identify the card or PIN used!

SPECIFICATIONS

Operating Voltage	8-18VDC
Status Indication	3 LEDs and piezo buzzer
Physical Dimensions	85mm (W) x 85mm (L) x 40mm (D)
Communication Protocol	Wiegand, F2F, clock and data outputs
	Enrolment, storage, management & verification on board
Fingerprint Template	4000 +
Number of Users	User configurable spring loaded switch
Tamper Protection	Touchchip™ CMOS Active Capacitive
Sensor Type	Pixel Sensing
Touchchip™ Sensor Life	Minimum 1 million reads
False Accept Rate	0.01%



MicroLatch.

KEYFOB & PACKAGE

KEYFOB

Microlatch metallic Keyfobs offer a robust user token incorporating a patented cypher wiegand field within the Rolling Code RF Wireless Communication. In addition, the Microlatch Keyfobs can optionally contain a Dual Authentication chip or IC, such as Mifare®, EM, HID Prox and iClass technologies, offering full compatibility with existing access control systems. The result is a versatile and multi-purpose user token containing between 1 to 4 push-buttons.

- Compatible with all Microlatch™ fingerprint products

SPECIFICATIONS

Operating Voltage	12VDC
Battery Type	12V 27A x 1
Current Consumption	42mA Max. Transmitting
Operating Frequency	433.92, 315 & 868 MHz
	SAW Resonator Locked (+/- 75KHz)
Transmission Modulation	AM ASK
Transmission Security	Keeloq™ Code Hopping Technology
RF Range	Typical 100m (Environment dependant)
Wiegand Encoding	26 bit Wiegand data encrypted within Keeloq Rolling Code
Operating Temperature Range	-10 °C to +40 °C
Safety & Certifications	EMC Tested & Approved. C-Tick, CE and FCC



PAC-14

Microlatch offers fully self-contained packages for RF Wireless Fingerprint control requirements. The PAC-14 combines the Microlatch wall-mount BIO-14 with associated RF Receiver, 12 VDC plug pack and an additional 'request to exit' switch. The Receiver also has an optional Door Chime function. For applications in small office or residential, the RF packages offer a verification fail condition that activates the 'door chime' as a request for attention. The Microlatch packages are also ideal for garage and access door control or security alarm systems.



PAC-14



PAC-15

Similar to the Microlatch PAC-14, this package replaces the BIO-14 with a BIO-15, offering flush mounting options to the owner. Consistent with the PAC-14 operation, the PAC-15 Receiver optional 'door chime' is activated when the input finger is not matched, otherwise a match will operate the access control, garage door or security alarm system. The BIO-15 also has a strong metallic and glass face.

PAC-15



PAC-14 PACKAGE CONTENTS:

- BIO-14 Wireless Fingerprint Unit
- REC-18 RF Receiver Controller
- 12VDC Power Adaptor
- RTE-Request to Exit Keyfob
- 6V Lithium Battery Pack (ML-614)
- Keyfob (for Australia)
- User Manual
- DVD

PAC-15 PACKAGE CONTENTS:

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- Keyfob (for Australia)
- User Manual
- DVD



BLISTER PACKAGE & RECEIVER

BLI-21(S) / BLI-41(S)

Microlatch Wireless RF Remote Access Control Blister packages offer a single package solution for a variety of control functions, alarm panels, electro-mechanical door strikes and garage doors. The Blister packages offer a Versatile Access System Upgrade and Expansion from traditional control devices.

BLI-21(S) PACKAGE CONTENTS:

- 1 x REC-28 2 -Ch Receiver with BLI-21
- 2 x 2 Button Remote Keyfobs

BLI-41(S) PACKAGE CONTENTS:

- 1 x REC-14 4 -Ch Receiver with BLI-41
- 2 x 4 Button Remote Keyfobs

BLI-BIOFOB PACKAGE CONTENTS:

- 1 x REC-14 4 -Ch Receiver with BLI-41
- 1 x 4 Button Remote Keyfob + 1 x BIOFOB



Mini Receiver

Microlatch Mini RF Lock offers a convenient and versatile security package with a built-in RF receiver allowing operation of up to 25 transmitters, a Master transmitter, time setting options, latching function and use of Microlatch Biometric transmitters for the ultimate in high end security.

BLI-RF Latch

Microlatch Wireless RF mini latch blister pack offers a robust RF electro-mechanical lock with 2 metal keyfobs for ultimate security in a self contained retail package. A versatile and unique combination utilising Keeloq code hopping technology. Multi functional with optional time settings, latching and compatible with Microlatch Biometric devices.



BLI-RF Latch



Mini Receiver

SPECIFICATIONS

Operating Voltage	12 VDC
Current Consumption	Standby 13mA; open 115mA (Lock dependant)
PCB Physical Dimensions	28mm x 13.5mm
Output Channel	1
Output Timing (definable)	Button 1: 10 seconds strike opening Button 2: 60 seconds strike opening Button 3: open latching Button 4: locks strike, over riding button
Reverse Polarity Protection	Yes (diode)
RF Operating Frequency	433.92MHz
RF Signal Type	Code Hopping (Keeloq™) AM ASK
Learning Capacity (RF Devices)	Typically 25 fobs

BLI-RF Latch PACKAGE CONTENTS:

- 1 x Mini Receiver and 2 x FOB-4B(4S) or
- 1 x Mini Receiver and 1 x FOB-4B(4S) + BIOFOB

REC-20

The REC-20 Wireless Wiegand Controller offers simple and cost-effective long distance capability for all security control systems. The 4 Wiegand outputs on the REC-20 translate directly to the 4 push-buttons on the Microlatch Keyfobs and BIOFOB's. The REC-20 will co-exist with any standard access card reader and operate as a parallel input device to the controller. Microlatch BIO products or non-fingerprint keyfobs all have Wiegand communication and automatically synchronise to the REC-20 with 2 short successive presses of the buttons. The REC-20 utilises Rolling Code transmission and cypher encryption of the 26 bit Wiegand user I/D.

RECEIVER

REC-14

Microlatch 4 channel receiver offers 4 flexible relay controls for a variety of output devices. The relays may be configured as 1 second immediate activation for alarm systems, toggle for garage or 5 second operation for door controls, or 10/15 second for other purposes. With same features, **REC-28** offers 2 channel option.

REC-14 IP65

Separate REC-14 IP65 just adds that the product comes in weather proof casing.

REC-18

The wireless receiver/controller is an integral part of the Microlatch™ wireless RF fingerprint and non-fingerprint packages. The REC-18 receives Rolling Code radio signals from any Microlatch BIO reader or non-fingerprint keyfob and operates electro-magnetic door strikes, garage doors, alarm panels or any other connected equipment. The versatile REC-18 also includes an option for Door Chime output, plus low-battery warning, which add together to deliver a truly unique solution.

REC-20 IP65

The REC-20 IP65 Wireless Wiegand Receiver enables external operation of the Microlatch REC-20. The external case ensures IP65 water and weather protection for the internal electronics, thus allowing installation into boom-gates and remote areas. The Microlatch REC-20 IP65 maintains all the security, features and 45,000 keyfobs support, exactly the same as the REC-20.

SPECIFICATIONS

Operating Voltage	9 to 24VDC, 9 to 18VAC
Current Consumption	Standby 14mA, All relays 56mA
@ 12VDC	Standby 28mA, All relays 75mA
@ 24VDC	Standby 28mA, All relays 73mA
@ 16VAC	
Physical Dimensions IP65 Case	160mm x 90mm x 55mm
Standard Case	Antenna 200mm
Case Material	108mmx70mmx34mm
Output Channels	ABS plastic
Output Rating	4
	SPDT relay 1 Amp switching maximum @ 24VDC
	Contacts are voltage free
Reverse Polarity Protection	Yes (diode)
RF Operating Frequency	433.92, 315 & 868 Mhz
RF Signal Type (Data Transfer)	On Off Keying (ASK)
	Keeloq™ Code Hopping
Coding Combinations	4.2 billion
Learning Capacity (RF Devices)	255 fobs

SPECIFICATIONS

Operating Voltage	10 - 24VDC Regulated 300mA minimum. Battery backed supply recommended.
Indicators	On Keeloq™ Reception – Red LED On – Green LED
Current Consumption @12VDC	28mA standby; 175mA door chime; 45mA low battery
Physical Dimensions	250mA all outputs (no door strike)
Output 1 (DOOR)	125mm (L) x 80mm (W) x 32mm (H) Timed voltage free SPDT relay. Common can connect to +12 or GND via T3 jumper
Output 1 Timing	4 Settings via on board DIP switch; SW1 ON=5 secs; SW2 ON=10 secs; SW3 ON=15secs; SW4 ON=20secs
Output 2 & 3	Voltage free SPDT relay timed action
RF Operating Frequency	433.92, 315 & 868 MHz
Operating Range	Typical 50m, 200m max
RF Signal Type	Code Hopping (Keeloq™) AM ASK
Safety Compliance	EMC Tested and Approved. CE, FCC and C-Tick Complies with AS/NZS 4268:2003, AS/NZS4251.1:1999

SPECIFICATIONS

Operating Voltage	9 - 25VDC regulated 300mA minimum battery backed supply recommended.
Indicators	On Keeloq™ Reception – Red LED On Wiegand Transmission – Green LED 10mA maximum
Current Consumption @12VDC	
Physical Dimensions	85mm (L) x 65mm (W) x 32mm (H)
Case Material	ABS plastic
Output Channels	4 individual channels, 4 Wiegand I/D's through channel 1
Output Options	INT..... Shunt selectable REMOVED... 10K pull-ups to 5 volt DC EXT..... Open collector +5 volt out terminal active for user selectable external pull-ups
RF Operating Frequency	433.92, 315 & 868 MHz
RF Signal Type	Code Hopping (Keeloq™) AM ASK superheterodyne
Wiegand Outputs	Conforms to Wiegand standard
Safety Compliance	EMC Tested and Approved. CE, FCC and C-Tick Complies with AS/NZS 4268:2003, AS/NZS 4251.1:1999



REC-14



REC-14 IP65



REC-18



REC-20



REC-20 IP65



External Antenna





Any Microlatch™
Reader or FOB



iPhone or
3G Bluetooth
Mobile Phone



Building
Access



Automotive
Application



3rd Party
Weigand
Output



Alarm Panel
Control



Long Range
Control



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