

The World's Most Advanced Wireless Door Control System

LAZERPOINT RF™
BY CAMDEN



Only LAZERPOINT RF™ provides the largest selection of activation devices, the most reliable performance and the lowest installation cost!



www.camdencontrols.com/lazerpoint



Advanced Technology and System Design

DELIVERING THE MOST FLEXIBLE AND RELIABLE SOLUTION AVAILABLE TODAY!

LAZERPOINT RF™
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LAZERPOINT RF™ is designed to do what narrow-band systems can't!

Conventional wireless (also known as narrow-band) systems communicate at a frequency that remains constant. This makes the wireless signal very susceptible to interference.

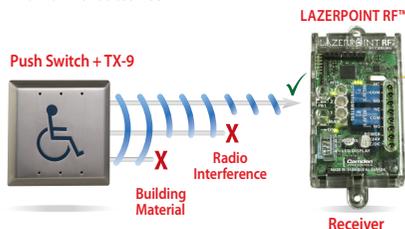
Camden's new Lazerpoint RF™ provides a superior solution with industry-leading (broadband) 915 MHz. spread spectrum wireless technology.

Lazerpoint RF™ 'spreads' the wireless signal across a number of frequency channels on a wider electromagnetic spectrum.

Lazerpoint RF™ frequency - hopping (FHSS) wireless communications is virtually impervious to interference from other wireless devices (RFI immunity).

In addition, Lazerpoint RF™ wave length is 70% shorter than 300-400 MHz. signals, allowing it to pass through smaller openings in building materials. Best of all, Lazerpoint RF™ provides a range up to 10 times that of typical narrow-band wireless products.

Lazerpoint RF™ state-of-the-art circuitry draws minimal power: up to 5 year battery life or 500,000 activations, utilizing two AAA alkaline batteries.



Single frequency wireless (narrowband) is easily blocked by building materials (that limit your options for placement of transmitters) and radio interference from other electrical/electronic devices (which can cause intermittent disruptions that are a service nightmare). LAZERPOINT RF™ wireless technology 'hops' between 3 frequencies to ensure that the wireless signal always gets through.

Lazerpoint RF™ by Camden Door Controls is the industry's most advanced wireless activation system for automatic doors. This remarkable 915MHz. spread spectrum (broadband) wireless system even provides reliable performance in many applications where wireless could not be used before. In addition to the best wireless technology, Lazerpoint RF™ also offers a range of exclusive features designed to make installation and service easier, including a battery test gauge, built-in signal strength indicator and stuck switch alarm. Lazerpoint RF™ is supported with the widest range of wireless transmitters, receivers, accessories and compatible activation devices in the market.

Lazerpoint RF™ is also ideal for retrofit applications with compatibility with most 300MHz., 318MHz., 390MHz. and 433MHz. fixed frequency wireless systems.

SYSTEM FEATURES

- The industry's most advanced wireless activation system with a range of wireless activation devices, receivers and accessories.
- 12 or 24 Volt, AC or DC operation. Lazerpoint RF™ is compatible with all automatic door operators.
- Advanced 915MHz. spread spectrum (broadband) wireless communications for outstanding performance in the most demanding applications.
- Multi-year battery life (using inexpensive 'AAA' alkaline batteries) and exclusive 'low battery' and 'gas gauge' audible alerts.
- Ultra compact designs fit where other products can't, including jamb switch boxes and low profile door operators.
- Built-in relays/door sequencers save time and money by avoiding the cost of buying and installing additional components.
- Optional plug-in receiver modules provide compatibility to other RF frequencies.
- A range of installation support features, including 'Push and Learn' transmitter enrollment and signal strength indicators, makes Lazerpoint RF™ the easiest system to install.
- The option for Lazerpoint RF™ wireless compatible keypads and hands-free switches.
- Camden product quality backed by a full 3 year replacement warranty.

Wireless Activation

LAZERPOINT RF™ by Camden Door Controls provides exclusive 915Mhz. spread spectrum technology, together with the widest range of wireless door activation devices in the industry. From push plate or touchless switches to FOBs and keypads, LAZERPOINT RF™ allows you to provide the best door control for any application.

KEY FOBs

Lazerpoint RF™ is supported with a range of advanced 1, 2 and 4 button key FOBs.

These innovative key FOBs are designed to easily snap into a multi-purpose base, to make a handheld FOB, visor FOB or wheelchair (strap) FOB.

- Compact and durable with selection of one, two and four button key FOB transmitters.
- Exclusive visor/wheelchair strap FOB base, accepts any CM-TXLF Series FOB
- Raised buttons facilitate use by those with disabilities
- LED visual confirmation of wireless activation
- Exclusive battery test gauge feature
- Low battery Annunciator



Handheld



Wall-Mounted



Wheelchair/Strap



Belt/Visor

MODELS

CM-TXLF-1 One button key FOB	CM-TXLF-4 Four button key FOB
CM-TXLF-2 Two button key FOB	CM-TXLFB Handheld, clip and wheelchair key FOB base

WALL SWITCH TRANSMITTERS

Ultra compact design, fits where other transmitters can't.

Best of all, the low current draw of LAZERPOINT RF™ wireless technology supports years of battery life using standard alkaline batteries.



- 'Instant response' captures brief switch activations
- Compatible with all push button and push plates
- Ultra compact design
- Audible 'stuck switch'
- Low battery indication

MODELS

CM-TX-9 Wall Switch Transmitter

Lithium Batteries

CM-xxxL2: Add 'L2' to CM-TX-9 model # for 'AAA' lithium batteries in place of alkaline

CM-LP2: (2) 'AAA' lithium battery pack

NOTE: Lithium batteries recommended for environments below 32°F (0°C)

HANDS-FREE SWITCHES

Camden SureWave™ touchless switches utilize active infrared micro burst technology, to provide superior performance over years of operation.



- Adjustable operating range, 1" to 72"
- Adjustable time delay, 3 – 30 seconds
- Optional light ring for visual indication of door status and alarms

MODELS

CM-330	Wireless, battery powered, no relay (provided by receiver)
CM-331	Wired, line powered switch with 1 relay, and the option for wireless
CM-332	Wired, line powered switch with 2 relays, and the option for wireless
CM-333	Battery powered, and the option for wireless

Lithium Batteries for CM-330 and CM-333

CM-xxxL1: Add 'L1' for (2) 'AA' lithium batteries in place of (2) alkaline

CM-LP1: (2) 'AA' lithium battery pack

KEYPADS

Camden CM-120 Series keypads are North American built and are available battery powered or hand-wired.



- Indoor or back-lit, weather and vandal resistant models
- 999 Users with 10 million variable length codes
- REX and door contact inputs

MODELS

CM-120i	Indoor wired keypad, with option for wireless
CM-120wV2	Outdoor back-lit vandal resistant wired keypad, with option for wireless
CM-120TX	Outdoor back-lit vandal resistant wireless keypad, battery operated

Lithium Batteries for CM-120TX

CM-xxxL1: Add 'L1' for (2) 'AA' lithium batteries in place of (2) alkaline

CM-LP1: (2) 'AA' lithium battery pack

Wireless Receivers

LAZERPOINT RF™ receivers are the most advanced, feature rich and easily installed receivers in the industry, available in one relay or two relay configurations. The receiver can be installed inside a door operator cabinet header. Factory default operating modes eliminate the need for an additional door control relay. Plug-in daughterboards enable the receiver to be used with most brands of fixed frequency transmitters, eliminating the need to replace equipment in retrofit applications.

VISUAL LEDs – RL1 AND RL2

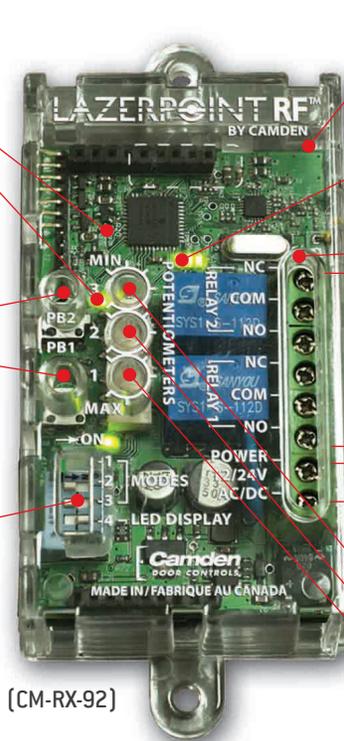
- Indicates program mode 'on' and 'off'
- Indicates transmitter deletion (erase)
- Indicates number of transmitters enrolled, channel 1 and 2
- Indicates Relay Activation
- Indicates transmitter signal strength

PUSH BUTTONS - PB1 AND PB2

- Enter programming mode, channels 1 and 2
- Enroll transmitters

DIP SWITCH – 1, 2, 3 AND 4

- Select relay operating mode
- Select LED indications for relay status or transmitter signal strength



(CM-RX-92)

- Plug-in slot for first optional daughterboard

VISUAL LED - ARRAY

- Indicates confirmation of transmitter enrollment
- Indicates hold open relay time
- Potentiometer display setting

'EASY CONNECT'

- Large terminal block for easier wiring
- {2} SPDT relays rated 3 Amps
- 12/24V, AC/DC power

POTENTIOMETERS – 1, 2 AND 3

- Adjust for lock (strike) hold time
- Adjust for door operator 'energize' delay
- Adjust for door operator hold open time

OPTIONAL FIXED FREQUENCY PLUG-IN BOARDS

- Up to 2 plug-in daughterboards per receiver allowing up to 3 transmitter frequencies to be used simultaneously.
- Frequency formats compatible with most brands

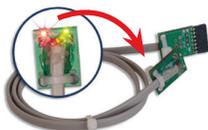


MODELS

CM-RX-DBB	300MHz Daughterboard (blue antenna)
CM-RX-DBO	318MHz Daughterboard (orange antenna)
CM-RX-DBR	390MHz Daughterboard (red antenna)
CM-RX-DBW	433MHz Daughterboard (white antenna)

SERVICE TOOL

Plug-in LED Cable Tool, 33".



RX-92 RELAY OPERATING MODES

MODE	DESCRIPTION	OPERATING MODES
MODE 1	DUAL INDEPENDENT OUTPUTS	Two separate channels, each with a Form 'C' output, and 1 - 30 second timer.
MODE 2	SWITCHING NETWORK	(Make/Break Relay) performs a similar function as Camden CX-12 or SA-1. Suitable for a door with electric lock and automatic operator.
MODE 3	VESTIBULE SEQUENCING 'A'	This mode sequences two doors in both directions, with just one pair of wires between the two doors. Only 1 RX-92 required.
MODE 4	VESTIBULE SEQUENCING 'B'	This mode sequences two doors in both directions, with no wiring! Requires 2 RX-92's.
MODE 5	ACCESS CONTROL MODE	Upon receipt of a signal, this mode latches Relay 1, the lock relay. While locked, it allows transmitters, learned into channel 2, to fire (activate) the operator relay.
MODE 6	FREIGHT DOOR MODE	A transmitter input will activate the lock output for an adjustable time, and latch the operator output indefinitely. A second activation allows the door to close.

Lazerpoint RF Packages

Camden makes project management easier by offering a range of LAZERPOINT RF™ kits. It's a complete door activation package, with the assurance of the best performance and no missing parts on the jobsite.



LAZERPOINT RF™ PACKAGES INCLUDE:

- 2 CM-TX9 transmitters
- 2 stainless steel all-active switches
- 1 CM-RX91 receiver
- 2 mounting boxes/enclosures.

RECEIVER OPTION: Add 'D' to Switch Package # for CM-RX92 Dual Relay Receiver in place of CM-RX91

JAMB WIDTH SWITCH PACKAGES (CM-25 SERIES)

- CM-RFL252 Wheelchair Symbol + Surface Box
- CM-RFL253 'PUSH TO OPEN' + Surface Box
- CM-RFL254 Text and Wheelchair Symbol + Surface Box



CM-RFL252

4 1/2" ROUND SWITCH PACKAGES (CM-40 SERIES)

- CM-RFL402-47 Wheelchair Symbol + Surface Box
- CM-RFL403-47 'PUSH TO OPEN' + Surface Box
- CM-RFL404-47 Text and Wheelchair Symbol + Surface Box
- CM-RFL402-49 Wheelchair Symbol + Flush / Surface Kit
- CM-RFL403-49 'PUSH TO OPEN' + Flush / Surface Kit
- CM-RFL404-49 Text and Wheelchair Symbol + Flush / Surface Kit



CM-RFL404-47



CM-RFL404-49

4 1/2" SQUARE SWITCH PACKAGES (CM-45/46 SERIES)

- CM-RFL45 Concealed Screws, stainless steel faceplate
- CM-RFL46 Exposed Screws, stainless steel faceplate
- CM-RFL46CB Exposed Screws, blue aluminum faceplate
- CM-RFLXX2 Wheelchair Symbol + Surface Box
- CM-RFLXX3 'PUSH TO OPEN' + Surface Box
- CM-RFLXX4 Text and Wheelchair Symbol + Surface Box



CM-RFL453



CM-RFL464



CM-RFL46CB4

6" ROUND SWITCH PACKAGES (CM-60 SERIES)

- CM-RFL602-69 Wheelchair Symbol + Surface Box
- CM-RFL603-69 'PUSH TO OPEN' + Surface Box
- CM-RFL604-69 Text and Wheelchair Symbol + Surface Box
- CM-RFL602-79 Wheelchair Symbol + Flush/Surface Kit
- CM-RFL603-79 'PUSH TO OPEN' + Flush/Surface Kit
- CM-RFL604-79 Text and Wheelchair Symbol + Flush / Surface Kit



CM-RFL603-69



CM-RFL603-79

OPTIONS (Add suffix to models above)

CM-RFLxxx/V

Add 'V' to switch package model # to add CM-2520 vestibule switch, CM-53 surface box, (2) CM-TX9 wireless transmitters and (2) CM-RX92 dual relay receivers.

The CM-2520 graphic option will match push plate switches. Not to be ordered with 'D' suffix switch packages.

CM-RFLxxx/D

Add 'D' to switch package model # for CM-RX92 dual relay receiver, in place of CM-RX91

Lithium Batteries for Wireless Switch Kits

- CM-xxxL3 Add 'L3' to RFL kit for (4) 'AAA'
- CM-LP2 (2) 'AAA' lithium battery packs



CM-RFL25204

VESTIBULE SWITCH PACKAGES INCLUDE:

- CM-2520
- CM-53 Surface Box
- 2 CM-TX9 transmitters
- 1 CM-RX92 receiver

VESTIBULE SWITCH PACKAGES (CM- 2520)

- CM-RFL25202 Wheelchair Symbol
- CM-RFL25203 'PUSH TO OPEN'
- CM-RFL25204 Text and Wheelchair Symbol



LAZERPOINT RF™ is designed for any wireless door control application!

LAZERPOINT RF™ is the only 915MHz spread spectrum wireless system on the market, with instant switch response – simply better performance!

- 915Mhz. spread spectrum wireless technology provides superior operating range, signal integrity and reliable operation not offered by other (fixed frequency) wireless systems.
- Supported with the widest range of wireless door activation devices in the market
- An extensive list of unique product features that make installation, operation and maintenance easier than ever before.
- Optional fixed frequency plug-in boards eliminate the need to replace transmitters in retrofit applications.

LAZERPOINT RF™ is designed to save you more money!

- No extra cost for timers and sequencer relay control. RX-92 features (3) built-in timers and a complete range of program controls.
- Faster installation with less problems. LAZERPOINT RF™ exclusive features include battery test/alarm, stuck switch alarm, signal strength indicators, auto enrollment and cable tool.
- Virtually no service call backs. Spread spectrum technology will not be affected by future building changes (materials or electrical equipment).
- Less maintenance due to longer battery life.

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