

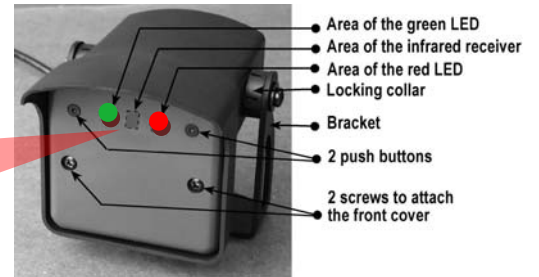
DESCRIPTION OF FEATURES

DATE: February 22, 2011
SUBJECT: FALCON / FALCON XL TIPS

- ✓ Capable of **discriminating cross traffic**.
- ✓ Capable of **discriminating between vehicles and pedestrians**.
- ✓ Three detection modes: **bi-directional** (picks up motion in any direction), **uni-directional approach** (only picks up motion coming toward the sensor), and **uni-directional depart** (only picks up motion going away from the sensor).
- ✓ Optional Explosion Proof Housing
- ✓ Will work on any brand of automatic/industrial door or gate.
- ✓ Prewired with 33' of heavy-duty cable.
- ✓ Temperature range of -30F to +131F.
- ✓ NEMA 4 housing.
- ✓ Increased range of mounting heights: **Falcon** 11.5' to 24'. **FalconXL** version available for applications 6.5' to 11'
- ✓ Gives you the option to easily relocate and/or reconfigure the activation pattern at a later date if required whereas this may not be feasible when using a loop detector.
- ✓ Typical installation time is between 20 Minutes and 1 Hour, depending on experience.

REMOTE CONTROL FUNCTIONS

All remote control adjustments begin by pressing the "unlock" key.
To save remote control values one must press the lock key "two" times
Consult the Falcon user guide for manual push button setup.



If unlocking the Falcon using the remote and it displays a very rapid red flash it has a lock code entered. If the lock code is known simply enter the 4 digit number. If it's not known then you will need to reset it to the factory lock code. Cycle sensor power and within 60 seconds push unlock then lock, lock (lock twice).

	UNLOCK (Press this 1 st to begin any changes or inquiry)		LOCK (Always follow any changes with a lock, lock to save)		INQUIRY (To inquire press unlock, parameter button, Inquire button, the number of green blinks is the value of the parameter)
	Sensitivity (0-9 max) Default =7		Hold Time (0-9) Default = 0 /,5 sec. (0.5 sec – 9 sec)		Relay Output (1-4) 1.Active Output (Default) 2.Passive Output 3. Permanent detection 4.Permanent non-detection
	Detection Mode (1-3) 1. Bidirectional 2. Unidirectional Approach (Default) 3. Unidirectional Depart		Restore Default Settings (Wand and 1) (See Addendum 1)		Rejection Mode 1.Detects all traffic: Pedestrian & vehicle (Default) 2. Detects all traffic + Immunity 3. Low pedestrian/Parallel traffic rejection 4. Mid Pedestrian/Parallel traffic rejection 5. High Pedestrian/Parallel traffic rejection 6. Extra High Pedestrian/Parallel traffic rejection

REJECTION MODE SETTINGS



The discrimination between a pedestrian and the different vehicles depends mainly on the mounting height and the microwave module tilt angle. Be careful that the rejection function increases the response time of the sensor.

Use the next table as suggestions for pedestrian rejection and do not hesitate to increase or decrease the rejection level to obtain the required rejection. Increasing or decreasing of the sensitivity key may also be required for desired results.

		Recommended key	Tilt angle		
			15°	30°	45°
Mounting height	FALCON	23 ft	3	4	4
		16.5 ft	3	4	4
		11.5 ft	4	4	5
	FALCON XL	10 ft	3	4	4
		7.5 ft	4	4	5

WIRING / ELECTRICAL

Supply voltage:		12V to 24V AC +/- 10%	
		12V to 24V DC +30% / -10%	
Current Consumption		Output relay	
@ 24v	83mA	Max. contact Voltage	42V AC/DC
@ 12v	166mA	Max switching power	30W (DC) / 60 VA (AC)

USA Wire color	Function	European wire color	Terminal Number
Red	12 – 24 VDC “+” (positive)	Brown	1
	Or		
	12 – 24 VAC hot		
Black	12 – 24 VDC “-” (negative)	Green	2
	Or		
	12 – 24 VAC neutral		
White	Relay output common	White	3
Green	Relay output N.O.	Yellow	4
Yellow	Relay output N.C.	Grey	5

PRECAUTIONS



- Shut off all power going to header before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- ESD electrostatic discharge: Circuit boards are vulnerable to damage by electrostatic discharge. Before handling any board ensure you dissipate your body's charge.
- Always check placement of all wiring before powering up to insure that moving door parts will not catch any wires and cause damage to equipment.
- If applicable ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.
- DO NOT attempt any internal repair of the sensor. All repairs and/or component replacements must be performed by BEA, Inc. Unauthorized disassembly or repair:
 - o May jeopardize personal safety and may expose one to the risk of electrical shock.
 - o May adversely affect the safe and reliable performance of the product and will result in a voided product warranty.

COMPANY CONTACT



Do not leave problems unresolved. If a satisfactory solution cannot be achieved after troubleshooting a problem, please call BEA, Inc. If you must wait for the following workday to call BEA, leave the door inoperable until satisfactory repairs can be made. Never sacrifice the safe operation of the automatic door or gate for an incomplete solution.

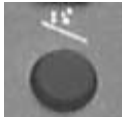
Our Service Technicians can be called 24 hours a day, 7 days a week. For more information visit www.beasensors.com.

Phone: 1-800-523-2462		Fax: 1-888-523-2462	
After Normal Business Hours			
West / Mexico 1-888-419-2564	Central 1-800-407-4545	AK, MI, WI, TX, Canada 1-866-836-1863	East 1-866-249-7937

ADDENDUM 1

The remote settings have changed for the Falcon/FalconXL:

If you need to reset the Falcon/FalconXL to the default factory settings please refer to the serial number on the reverse. If the serial number label on the **Falcon is marked with RL** or the **FalconXL is marked with SL** follow the settings below. If the units are not marked in this manner, the old key combination (Key 12 then 1) still applies.

During a sensor adjustment session all the parameters may be reset to their factory values in the following way:	
PARAMETER KEY	USER'S ACTIONS
DEFAULT VALUES 	Press the UNLOCK Key (3) . If applicable, enter your four-digit access code using NUMBER Keys 0-9 (1) . Press the DEFAULT VALUES Key (12) , and then press the NUMBER Key 9 . All the parameters are reset to the factory values (see below). DEFAULTS VALUES: 