

DESCRIPTION OF FEATURES

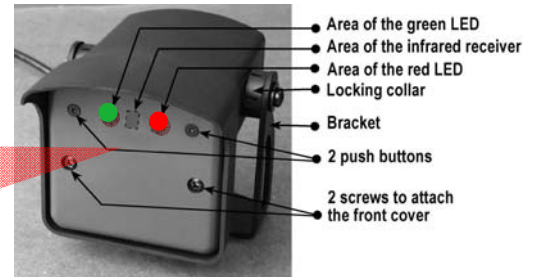
DATE: April 17, 2009

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		LOCK (Always follow any changes with a lock, lock to save)		INQUIRY
	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)		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

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.

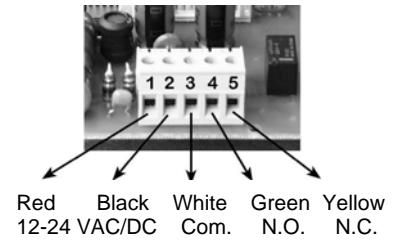
Use the next table as suggestions for pedestrian rejection and do not hesitate to increase or decrease the rejection level to obtain the required rejection. Increasing or decreasing of the sensitivity key may also be required for desired results.

		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
Red	12 – 24 VDC “+” (positive)	Brown
	<u>Or</u> 12 – 24 VAC hot	
Black	12 – 24 VDC “-” (negative)	Green
	<u>Or</u> 12 – 24 VAC neutral	
White	Relay output common	White
Green	Relay output N.O.	Yellow
Yellow	Relay output N.C.	Grey



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



West: 1-888-419-2564
South-East: 1-800-407-4545
Regional: 1-866-249-7937

Mid-West: 1-888-308-8843
North-East: 1-866-836-1863
Canada: 1-866-836-1863

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. The following numbers can be called 24 hours a day, 7 days a week. For more information, visit www.beasensors.com

Automatic door owners should perform a Daily Safety Check on each automatic door as outlined by AAADM. Safety checks should also be performed after any loss of power or any door maintenance. All automatic doors should be inspected at least once a year by an AAADM Certified Inspector. Automatic door distributors and installers should provide end-user Daily Safety Check instructions. Daily safety check information can be found in the relevant AAADM Owner's Manual(s) at: <http://www.aaadm.com/literature.asp>