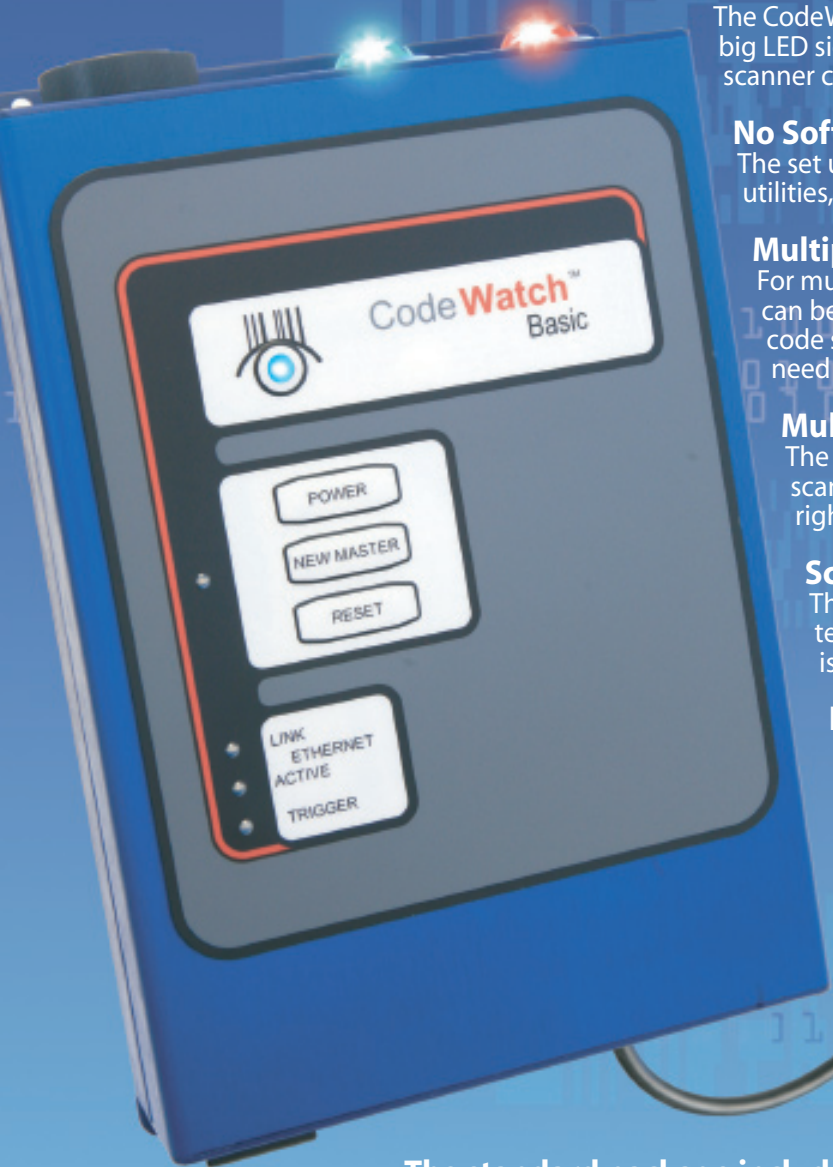


# CodeWatch Basic

## Match code made easy.

The CodeWatch Basic from AIDEA Inc combined with a barcode scanner makes match code configuration issues a thing of the past. Web browser set up and reporting eliminates the need to install or misplace another piece of software. Control the CodeWatch Basic from your desk with the web browser built into your PC.



The CodeWatch Basic has 3 configurable PLC outputs, audio alarm, big LED signal lamps, ethernet capability, and multiple barcode scanner choices as part of the standard hardware.

## No Software to Install

The set up and reporting tools all reside on the unit. To use the utilities, type the IP address of the unit into your web browser.

## Multiple Unit Synchronization

For multiple production lines, more than one CodeWatch Basic can be installed. The units can be configured to pass the match code set up from one leader to many followers alleviating the need to configure multiple units for every barcode change.

## Multiple Scanner Choices

The CodeWatch Basic works with multiple models of barcode scanners. We can help you make the choice in getting the right scanner for your application.

## Screw Terminal Connector

The relay outputs can be wired using the attached screw terminals. It includes one mechanical relay and two optical isolated outputs.

## High Speed

Supports up to 3000 triggers/minute.

## Internet Ready

Ethernet capability built into every unit. Make configuration changes over your network or view reports from your desktop PC with a web browser.

## In the Field Firmware Upgrades

Using a small software utility, the firmware can be upgraded in the field. New firmware enhancements and upgrades are free to registered users.

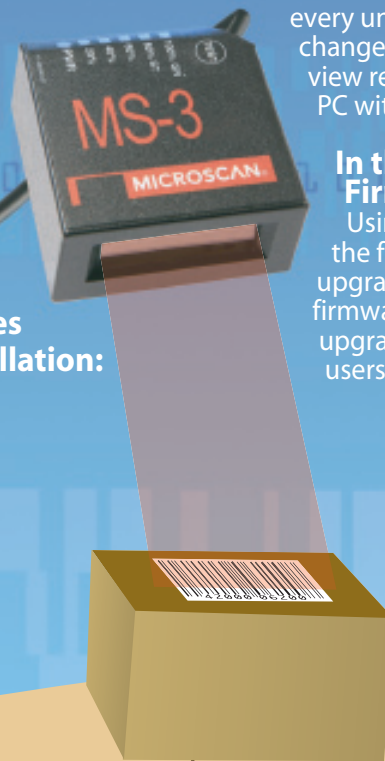
## The standard package includes everything you need for installation:

- CodeWatch Basic unit
- One barcode scanner
- One photo eye
- Cable for the barcode scanner
- Crossover Ethernet cable for initial CodeWatch Basic configuration
- Line cord
- Manual on CD
- Scanner mount

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Validation Solutions

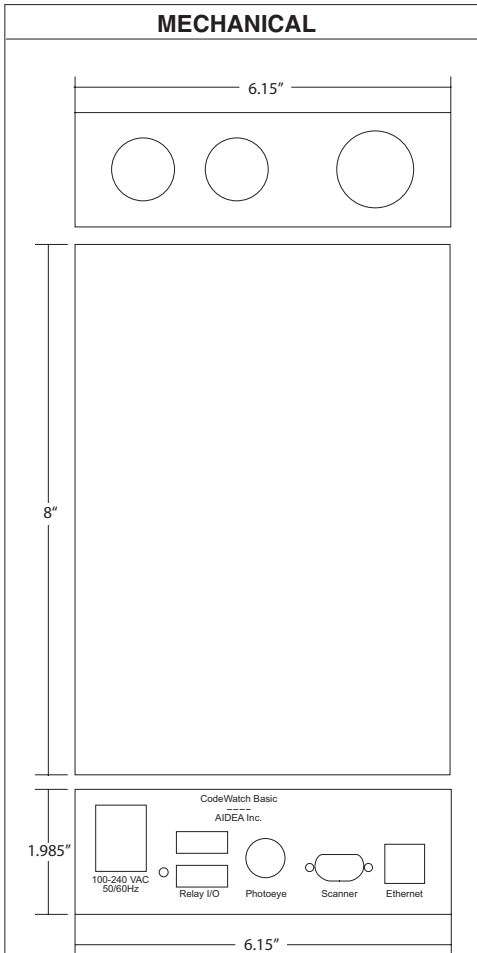


Visit Our Website or Email Us.

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[answers@AIDEAinc.com](mailto:answers@AIDEAinc.com)

**800.346.4956**

# CODEWATCH BASIC SPECIFICATIONS



### ENVIRONMENTAL

Environment Type	Industrial control box for indoor use.
Operational Temperature	0 to 50 Degrees C
Humidity	20-90% Non-Condensing

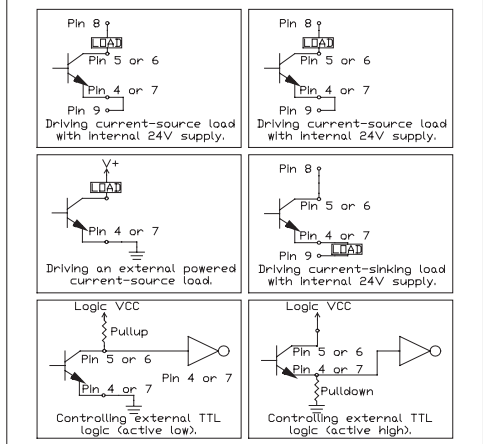
### PRIMARY ELECTRICAL INPUT

Input Voltage	100-240 VAC
Power Consumption	25 Watts (Max)
Input Frequency	50-60 Hz

### CODEWATCH PERFORMANCE

Maximum Read Cycles	3000 Triggers/Minute
Output Events	600 Outputs/Minute

### CIRCUIT EXAMPLE - More Examples In The Manual



### RELAY OUTPUT 1

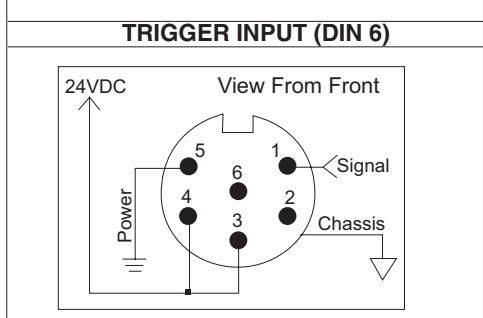
Output Type	Mechanical relay SPDT type.
Max Switching Voltage	60 Volts DC & 60 Volts AC
Maximum Switching Current	0.5 Amperes Continuous
Minimum Load	1mA @ 5 Volts DC

### OPTICAL ISOLATED OUTPUTS 2 & 3

Output Type	Solid-state optical isolated NPN type.
Collector Current Max	50mA per channel continuous.
Voltage Collector-Emitter Max	80 Volts DC
Voltage C-E Saturation Max	0.3 Volts
Rise Time - 100 Ohm Load	3uS (typical)
Rise Time - 1K Ohm Load	< 20uS (typical)
Fall Time - 100 Ohm Load	5uS (typical)
Fall Time - 1K Ohm Load	< 20uS (typical)

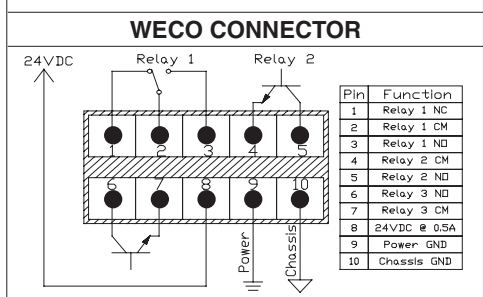
### AUDIO OUTPUTS

Output Type	Mallory Sonalert
Maximum Audible Level	< 80dB



### TRIGGER INPUT (DIN 6)

Input Type	Current sinking type.
Voltage Output Supply	24 Volts DC
Maximum Output Current	0.1 Amperes Maximum
Minimum Signal Voltage	4.5 Volts
Maximum Signal Voltage	24 Volts
Maximum Signal Current Draw	< 15 milliamperes @ 24 Volts DC
Minimum Debounce Timing	10mS
Minimum Valid Trigger Timing	> 15mS



### PRIMARY DC ELECTRICAL OUTPUTS (WECO CONNECTOR)

Voltage Output 1 (HD15)	5 Volts +/- 100mVolts
Max Current Output 1	~0.5 Amperes Continuous
Voltage Ripple Output 1	50mVolts Peak to Peak
Voltage Output 1 Fuse	Rated 0.5 Amps Fast Blow
Voltage Output 2 (HD15)	24 Volts +/- 1.4 V
Max Current Output 2	0.5 Amperes Continuous
Voltage Ripple Output 2	200mVolts Peak to Peak
Voltage Output 3 (WECO)	24 Volts +/- 1.4 V
Max Current Output 3	0.5 Amperes Continuous
Voltage Ripple Output 3	200mVolts Peak to Peak
Voltage Output 2&3 Fuse	Rated 1.0 Amperes Continuous

### HD-15 CONNECTOR PIN ASSIGNMENTS

PIN	FUNCTION
1	5 Volts (0.5A Continuous Max)
2	TX (In from scanner)
3	RX (Out from scanner)
4	Power & Signal Ground
5	Trigger Output (Current-Sinking Output)
6	N.C.
7	Input 1 (Output 1 from scanner)
8	Default Output
9	24 Volts (0.5A Continuous Max)
10	24 Volts (0.5A Continuous Max)
11	Input 3 (Output 3 from scanner)
12	N.C.
13	Chassis Ground
14	Input 2 (Output 2 from scanner)
15	Power & Signal Ground

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