

## ECMset Pro

# ECM Current Switch with ECTune™ Technology

Lowest turn on in the industry (as low as 30 mA), no more wire wraps

Resolution down to 5 mA for on/off state difference, eliminate costly call-backs

Tool-free adjustment with LED indication, save time with fast installation

Better than using Analog sensors, no more panel programming required



## DESCRIPTION

The ECMSet Pro, with the industry's lowest turn-on threshold, minimizes the need for wire wraps eliminating the frustration at installations where space or wire is insufficient for a proper wrap. With the patent pending ECTune™ technology, the CT is tuned to the electronic signature of an EC motor. In addition to achieving the industry's lowest turn-on, it also allows the sensor to detect on/off states with even the slightest change in current. This reduces call-backs for false 'on' or 'off' status and reduces time spent troubleshooting and commissioning. The no-tools-required adjustment knob is linearly calibrated, providing the user the ability to fine-tune without the hassle of multi-turn dials. It is also strategically marked, with a lettered dial (A-K) so the sensor can be pre-adjusted and installed without any live calibration. Finally, the red/green LED gives status indication for local testing and troubleshooting. Reduce installation time and eliminate call-backs with the ECMSet Pro.

## APPLICATIONS

- Go/no run detection for EC motors.
- High setpoint resolution prevents false trips due to EC motor stand-by current.
- Fans, pumps, and other loads driven by EC motors
- Small load go/no detection, even non-ECMs



*Tool-free adjustment with LED indication makes installation fast and easy*



*Low turn-on current eliminates the need for bulky wire wraps*



*Works flawlessly - accurate motor state detection with a sensitivity of 5 mA*



*Eliminate costly call-backs with the ECMSet Pro*



*Lettered dial (A-K) can be pre-adjusted and calibrated for repeat installations*



*Made in the USA with a 7-Year Warranty*

## FEATURES

- **No more wire wraps** : The industry's lowest turn-on (down to 30 mA), thanks to ECTune technology ( [read more!](#) )
- **No troubleshooting or callbacks**: Resolution down to 5 mA eliminates false "ON" or "OFF" indications
- **Fast and safe installation** : No-tools-required adjustment knob is linearly calibrated, providing the user ability to fine-tune without the hassle of multi-turn dials.
- **Immediate feedback** : Local LED indicators provide immediate feedback on motor status
- **No need to calibrate the same motor twice**: It is strategically marked with a lettered dial so the sensor can be pre-adjusted and installed without any live calibration. ( [read more!](#) )
- **Reduced maintenance costs**: The precise detection of motor status and reduced false alarms, saving time and reducing operational costs.

## ORDERING

SPLIT CORE	Min (on)	Max Amps	N.O. Output*	LED Indicator
C-2220-L-ECM	0.03A	50A	1.0A@30VAC/DC	•

## DIMENSIONS



**L: 2.02" H: 0.76" W: 1.62"**

**A: 0.42" x 0.35"**

- Mount Sensor Without removing conductor for installation savings
- Fits in small enclosures
- Clamp on conductor with iris, or screw mount detachable base

### SPLIT CORE - MINI C-2220-L-ECM



**Warning:** The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

## SPECIFICATIONS

Type	Split-Core Current Switch
Amperage Range	0 A to 50 A
Trip Adjustment	0.03 A~0.50 A (varies by motor type)
Dial Adjustment	240 degrees, no tools required
Output Type	NO, solid-state FET
Contact "On" Resistance	< 10 $\omega$
Contact "Off" Resistance	> 1M $\omega$
Response Time	< 3s
Hysteresis	2-6%
Standard Output Rating	1.0A@30VAC/DC
Power/Status LED	Power (red), Contact closed (green)
Environmental Rating	5-140 °F (-15-60 °C) 10-90% RH Non-condensing
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75°C insulated conductor
Power Sensor	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	1.9" x 1.35" x 0.6" (2.0" x 1.6" x 0.6" with bracket)
Sensor Aperture	0.375"
Compliance	cUL, UL, CE, RoHS

*\* Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.*