

## AutoSet Series Self-calibrating Current Switch

Self-calibrating for proof of flow  
Works flawlessly on VFDs and constant volume applications  
0.5-135A range  
N.O. 30VAC/DC output  
Optional command relay with LED



### DESCRIPTION

The AutoSet™ VFD self-calibrates to detect proof of flow on both variable frequency driven and constant volume motors on fans or pumps. The C-2350VFD automatically sets the proper threshold, eliminating false alarms associated with varying frequencies. Detects motor undercurrent conditions such as belt loss, coupling shear, and mechanical failure on fans and pumps while reducing installation time. New super-low 0.5A turn-on--totally self-powered!

### APPLICATIONS

- Detecting belt loss, coupling shear, and mechanical failure on variable frequency drives and constant volume fans and pumps.
- Great for data center current switch sensing



*Optional CR-XX command relay for stop/start/status in one labor saving device.*



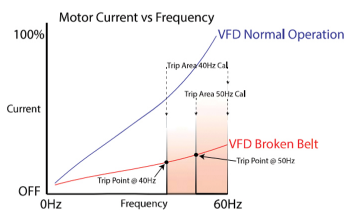
*Low turn-on of 0.5A for proof of flow status on VFDs. No calibration typically required.*



*Never calibrate in live enclosures again. Reducing risk of an arc flash.*



*Proven 1/2 hour savings per install over manually calibrated devices.*



*Utilizes an algorithm to detect belt loss on motors operated by variable frequency drives*



*Buy American Act Certified*

## FEATURES

- Self-calibration for proof of flow on both VFD and constant volume (CV) fans and pump applications
- Works without costly 'training' of sensor - our sensors are just plain smarter!
- No need to open energized enclosures - save on labor as well as improves safety
- Only sensor line capable of functioning on VFDs to 0.5A
- Sensor is always properly adjusted—no callbacks
- Push-button and LED for fast learn and go/no modes
- Optional command relay for stop/start/status in unitary device—saves component and installation space/cost
- Solid-state—more reliable than mechanical pressure switches for proof of flow
- Quality backed by 7 year limited warranty!

## ORDERING

| SPLIT CORE | Min (on)                                  | Max Amps | Output        | Run/Alarm LED | Sensor Power |
|------------|---|----------|---------------|---------------|--------------|
| C-2350VFD  | 0.5A @ 60Hz<br>1.5A @ 20Hz<br>2.5A @ 10Hz | 135A     | 1.0A@30VAC/DC | •             | Induced      |

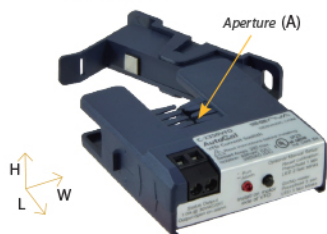
  

| COMMAND RELAY - DIRECT MOUNT<br>(MOUNTS ON ALL 2300 SERIES CURRENT DEVICES) |  | Contact rating    | Coil                  |
|---|--|-------------------|-----------------------|
| CR3-24  |  | N.O. 10A @ 125VAC | 24VAC/DC 15mA nominal |
| CR4-24  |  | N.C. 10A @ 125VAC | 24VAC/DC 15mA nominal |
| CR3-12  |  | N.O. 10A @ 125VAC | 9-12VDC 30mA nominal  |
| CR4-12  |  | N.C. 10A @ 125VAC | 9-12VDC 30mA nominal  |

*Other coil voltages available—consult factory*

## DIMENSIONS

### SPLIT CORE C-2350VFD



L: 2.5" H: 0.57" W: 2.23"  
A: 0.75"x 0.75"

- Mount sensor without removing conductor for installation savings
- Clamp on conductor with iris, or use detachable base to screw or DIN mount
- Larger 0.75" aperture accommodates oversize conductors

### OPTIONAL RELAY



L: 0.84" H: 0.72" W: 2.06"

- Add to 2350VFD series to get start, stop, status in a single device
- Reduces the number of installed components... saves time and space
- Removable relay facilitates service



**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

| Split Core | Min (on) | Max A | Output*       | Sensor P |
|------------|----------|-------|---------------|----------|
| C-2350VFD  | 0.5A     | 135A  | 1.0A@30VAC/DC | Induced  |

| Command Relay | Contact rating  | Coil                |
|---------------|-----------------|---------------------|
| CR3-24        | N.O. 10A@125VAC | 24VAC/DC, 15mA nom. |
| CR4-24        | N.C. 10A@125VAC | 24VAC/DC, 15mA nom. |
| CR3-12        | N.O. 10A@125VAC | 9-12VDC, 30mA nom.  |
| CR4-12        | N.C. 10A@125VAC | 9-12VDC, 30mA nom.  |

\* 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.