



Architects and Engineers Specifications

SENSOR TYPE: DIGITAL SWITCH, SELF CALIBRATING SET-POINT
STYLE: SPLIT-CORE
APPLICATIONS: PROOF OF FLOW, LOAD LEVEL STATUS

Adjustable Current Status Sensor Specification:

Current status sensors shall be utilized for monitoring fan (or pump) proof of flow operation. Switch set point shall be self-calibrating to normal FLA and alarm upon loss of load. Sensor shall compensate dynamically to moderate load changes to prevent false trips and automatically calibrate for load variancez's caused by air balancing. Contact closure shall be made any time the motor is operating above setpoint. Sensor shall provide visual indication (LED's) for output status and sensor power;

Sensor shall be capable of monitoring loads from 2.5 to 100A. Sensor shall have reset push button to manually set threshold if required.

Current sensor shall be isolated to 600 VAC rms with a minimum aperture

of 0.75" for motor power feed.; shall have an removeable mounting base suitable for screw or din rail mount. Switch shall have iris for centering conductor. Output shall be N.O., solid-state, rated 1.0 A @ 30 VAC/DC. Current switch shall have integrated command relay for controlling the motor starter. Command relay shall be removable to facilitate service.

Current switch shall be model #C-2330 as supplied by Senva Inc., or Engineer approved equal.

Proof of flow status, automatic calibration:

The contractor shall provide and install a self-calibrating current sensing switch on any motor required to have proof of flow status. One phase of the motor power feed shall be routed through the aperture of the current status switch.

SENSOR TYPE: DIGITAL SWITCH, MANUALLY SCALED SET-POINT
STYLE: SPLIT-CORE
APPLICATIONS: PROOF OF FLOW, LOAD LEVEL STATUS

Adjustable Current Status Sensor Specification:

Current status sensors shall be utilized for monitoring fan (or pump) proof of flow operation. Switch set point shall be scaled to range of the sensor with single turn adjustment. Sensor shall provide output trip at approximately 30% below selected current. Adjustable trip set-point to ±1% of its range from -15 to 60°C. Scale shall be compensated in relation to motor size and nomimal motor loading. Contact closure shall be made any time the motor is operating above setpoint. Sensor shall provide visual indication (LED's) for output status and sensor power.

Sensor shall be capable of monitoring loads from 2.5 to 100A. Current sensor shall be isolated to 600 VAC rms with a minimum aperture of 0.75" for motor power feed.; shall have an removeable mounting base

suitable for screw or din rail mount. Switch shall have iris for centering conductor. . Output shall be N.O., solid-state, 1.0 A @ 30 VAC/DC. Current switch shall have integrated command relay for activating the motor starter. Command relay shall be removable to facilitate service

Current switch shall be model #C-2320 as supplied by Senva Inc., or engineer approved equal.

NOTE: Specify C-2320L for loads under 50A for best resolution.

Proof of flow status,manual calibration:

The contractor shall provide and install a scaled, manually adjustable current sensing switch on any motor required to have proff of flow status. Sensor shall be set to motor FLA. One phase of the motor power

SENSOR TYPE: DIGITAL SWITCH, MANUALLY SCALED SET-POINT
STYLE: SOLID-CORE
APPLICATIONS: PROOF OF FLOW, LOAD LEVEL STATUS

Current Status Sensor Specification:

Current status sensors shall be utilized for monitoring fan (or pump) proof of flow operation. Switch set point shall be scaled to range of the sensor with single turn adjustment. Sensor shall provide output trip at approximately 30% below selected current. Scale shall be compensated in relation to motor size and nomimal motor loading. Contact closure shall be made any time the motor is operating above setpoint. Sensor shall provide visual indication (LED) for output status.

Current switch shall be isolated to 600 VAC rms with a minimum aperture of 0.31" diameter for motor power feed.; shall have an optional

iris and integral screw mounting provisions. Output shall be N.O., solid-state, 1.0 A @ 30 VAC/DC.

Current switch shall be model #C-1220 as supplied by Senva Inc., or Engineer approved equal.

Proof of flow status,manual calibration:

The contractor shall provide and install a scaled, manually adjustable current sensing switch on any motor required to have proof of flow status. Sensor shall be set to motor FLA. One phase of the motor power feed shall be routed through the aperture of the current status switch.

SENSOR TYPE: DIGITAL SWITCH
STYLE: SPLIT-CORE
APPLICATIONS: ON/OFF STATUS FOR SMALL DIRECT DRIVE MOTORS, LIGHT STATUS

Current Status Switches Specification:

Current status switches shall be utilized for on/off load status. Switch set point shall be fixed so that a contact closure is made any time the motor is operating within a range of 1-200 Amps. Induced current from the motor power feed shall power switch. Switch shall be split-core design to facilitate installation.

Current switch shall be isolated to 600 VAC rms with a minimum aperture of 0.75" for motor power feed.; shall have an removeable mounting base suitable for screw or din rail mount. Switch shall have iris for centering conductor. Output shall be N.O., solid-state, rated 1.0 A @ 30 VAC/DC. Current switch shall be model #C-2300 as supplied by Senva Inc., or engineer approved equal.

Current switch shall have integrated command relay for controlling the motor starter. Command relay shall be removable to facilitate service

Motor Status:

The contractor shall provide and install a current sensing switch on any motor required to have motor status. One phase of the motor power feed shall be routed through the aperture of the current status switch.

Lighting Status:

The contractor shall provide and install a current sensing switch on any lighting load required to have status. One phase of the lighting power feed shall be routed through the aperture of the current status switch.

SENSOR TYPE: DIGITAL SWITCH
STYLE: SOLID-CORE
APPLICATIONS: ON/OFF STATUS FOR SMALL DIRECT DRIVE MOTORS, LIGHT STATUS

Current Status Switches Specification:

Current status switches shall be utilized for monitoring on/off load status. Switch set point shall be fixed so that a contact closure is made any time the motor is operating within a range of 0.15-50 Amps. Induced current from the motor power feed shall power switch

Current switch shall be isolated to 600 VAC rms with a minimum aperture of 0.31" diameter for motor power feed.; shall have an optional iris and integral screw mounting provisions. Output shall be N.O., solid-state, 1.0A @ 30 VAC/DC.

Current switch shall be model #C-1200 as supplied by Senva Inc., or

engineer approved equal.

Motor Status:

The contractor shall provide and install a current sensing switch on any motor required to have motor status. One phase of the motor power feed shall be routed through the aperture of the current status switch.

Lighting Status:

The contractor shall provide and install a current sensing switch on any lighting load required to have status. One phase of the lighting power feed shall be routed through the aperture of the current status switch.

SENSOR TYPE: ANALOG SENSOR
STYLE: SPLIT-CORE
APPLICATIONS: LOAD TRENDRING, PROCESS LEVEL CONTROL

Analog Current Sensor Specification:

Analog output current sensors shall be utilized to monitor process. Sensor shall provide a proportional output over a selected current range with accuracy of +/- 2% full scale from 10~100% full scale Sensor shall be split-core design to facilitate installation without removing monitored conductor.

Current sensor shall have field selectable ranges at 30, 60, and 120A.

Current sensor shall be isolated to 600 VAC rms with a minimum aperture of 0.75" for motor power feed.; shall have an removeable mounting base suitable for screw or din rail mount. Switch shall have iris

for centering conductor to enhance sensor accuracy. Current switch shall have field installable integrated command relay for controlling the motor starter. Command relay shall be removable to facilitate service

Output shall be 0-5VDC (Senva model 2343 or engineer approved equal)

Output shall be 0-10VDC (Senva model 2344 or engineer approved equal)

Output shall be 4-20mA loop powered (Senva model 2345 or engineer approved equal)

SENSOR TYPE: ANALOG SENSOR
STYLE: SOLID-CORE
APPLICATIONS: LOAD TRENDRING, PROCESS LEVEL CONTROL

Analog Current Sensor Specification:

Analog output current sensors shall be utilized to monitor process.

Sensor shall provide a proportional output over a 0 - 15A monitored current range with accuracy of +/- 2% full scale from 10~100% full scale

Current switch shall be isolated to 600 VAC rms with a minimum aperture of

0.30" diameter for motor power feed.; shall have an optional iris and integral screw mounting provisions.

Output shall be 0-5VDC (Senva model 1203 or engineer approved equal)

Output shall be 4-20mA loop powered (Senva model 1205 or engineer approved equal)