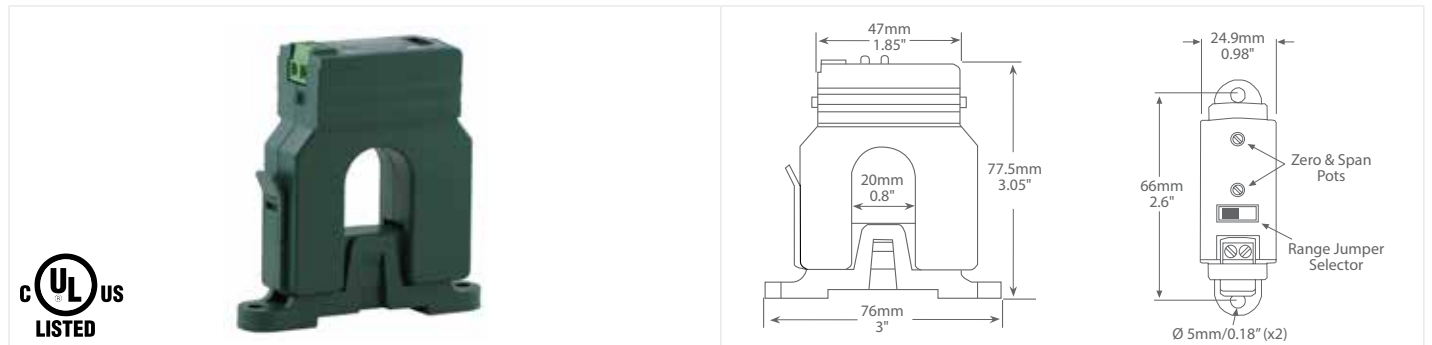




SPLIT-CORE CURRENT SENSOR



SC-675

PRODUCT DESCRIPTION

The SC-675 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output an analog signal to represent the load current. The SC-675 is loop-powered and requires 15 to 30 Vdc to power the device

The SC-675 series features True RMS current measurement suitable to measure complex waveforms such as those found in VFD controlled loads. They are also suitable for accurate measurement of phase angled controlled or time proportional SCR controlled load currents. The SC-675 Series contain a precision RMS-to-DC converter circuit which will measure load current accurately for complex, distorted or noisy waveforms as opposed to "average reading" devices that will only accurately measure pure sine waveforms.

TYPICAL INSTALLATION

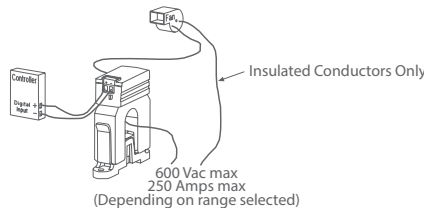
For complete installation and wiring details, please refer to the product installation instructions.

The SC-675 series must be mounted in an electrical enclosure and has a removeable integral mounting tab to allow either screw mount to a surface or spring mount to a DIN rail.

The SC-675 series has a 2 wire connection to the Building Automation System.

SPECIFICATIONS

MEASUREMENT RANGE	SC-675-2: 0-2 Amps SC-675-5: 0-5 Amps SC-675-R1: 0-10/20/50 Amps SC-675-R2: 0-50/100/150 Amps SC-675-200: 0-200 Amps
MAXIMUM INPUT CURRENT	SC-675-2: 10 Amps continuous SC-675-5: 15 Amps continuous SC-675-R1: 3x range continuous SC-675-R2: 2x range continuous SC-675-200: 250 Amps continuous
ACCURACY	SC-675-R1/R2: ±2% FSO (5-100% of range) SC-675-2, 5 & 200: ±1% FSO (5-100% of range)
SIGNAL OUTPUT	4-20 mA
SENSOR POWER	15 to 30 Vdc (loop-powered)
INSULATION CLASS	600 Vac, insulated conductors
FREQUENCY	20-400 Hz
RESPONSE TIME	500 mS typical, 0-90%
OUTPUT LOAD	250Ω typical
MAXIMUM LOAD	>600Ω at 24 Vdc
OPERATING TEMPERATURE	-15 to 50°C (5 to 122°F)
OPERATING HUMIDITY	5 to 90 %RH non-condensing
TERMINAL BLOCK	14 to 22 AWG
DIMENSIONS	76mm W x 79mm H x 24.9mm D (3.0" x 3.1" x 0.98")
SENSOR APERTURE	20.3mm (0.8")
ENCLOSURE MATERIAL	ABS/PC, UL94-V0
AGENCY APPROVALS	cULus listed



ORDERING

PRODUCT	SC-675	Split-Core Current Sensor, 4-20 mA Output
SENSING RANGE	2	0-2 Amps
	5	0-5 Amps
	R1	0-10/20/50 Amps - jumper selectable
	R2	0-50/100/150 Amps - jumper selectable
	200	0-200 Amps
		10 Amps Continuous
		15 Amps Continuous
		3x Amps Continuous
		2x Amps Continuous
		300 Amps Continuous

PART NUMBER

SC-675

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



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