ChenYang
Technologies GmbH & Co. KG

Self-Powered AC Current Sensor CYCS11-x0S3

The sensor **CYCS11-x0S3** is a self-powered single phase ac current transducer. The input and outputs are electrically isolated from each other. It needs no external power supply. Its ac current input is achieved by passing through the aperture Ø20mm of the case. The output is voltage 0-5V DC, 0-10VDC or instantaneous value ±5V. It can be widely applied to various measuring and controlling systems such as communication system, electrical power system, railway and various industrial control systems.

Specifications

Rated input current range	2A, 5A, 10A, 20A, 50A, 75A, 100A, 150A, 200A
Frequency of Input current	Typ. 50-60Hz, max. 5kHz
Output signal	0-5V DC, 0-10VDC,instantaneous value ±5V
Measuring accuracy	1.0%
Linearity error	0.2%
Isolation	between input and output
Load resistance	≥1MΩ
Isolation withstanding voltage	2.5 kV DC, 1min, leakage current 1mA
Operating temperature	-10°C ~ +60°C
Storage temperature	-25°C ~ + 70°C
Relative humidity	10% ~ 90%
Response time	≤500ms
Overload capacity	20 times
Frequency range	45 ~ 65Hz
Mounting	Din rail/screw
Case style and Window size	S3 with aperture Ø20mm

Definition of Part number:

CYCS11	-	x	0	S3	-	1.0	-	m
(1)		(2)	(3)	(4)		(5)		(6)

(1)	(2)	(3)	(4)	(5)	(6)
Series name	Output signal	Power supply	Case style	Accuracy class	Input current range (m)
CYCS11	**x=3:** 0-5V DC	**0:** none	S3	1.0%	2A, 5A, 10A,20A, 50A, 75A,100A, 150A, 200A
	x=8: 0-10V DC				20A, 50A, 75A 100A, 150A, 200A

CYCS11-30S3: Output voltage 0-5V DC, input current 2A ~ 200A
CYCS11-80S3: Output voltage 0-10V DC, input current 20A ~ 200A

Typical Example: CYCS11-30S3-1.0-50A, Self-powered AC Current sensor with
Output signal: 0-5V DC
Rated input current: 50A AC/RMS
Accuracy: 1.0%

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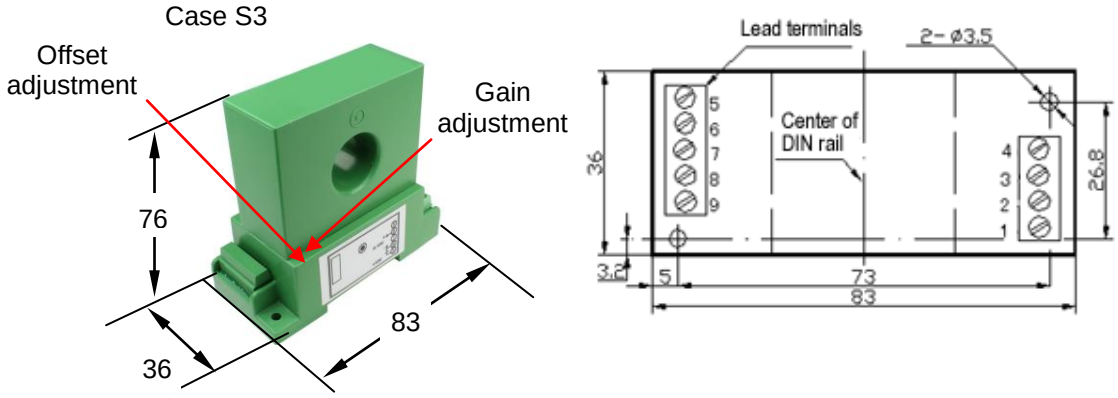
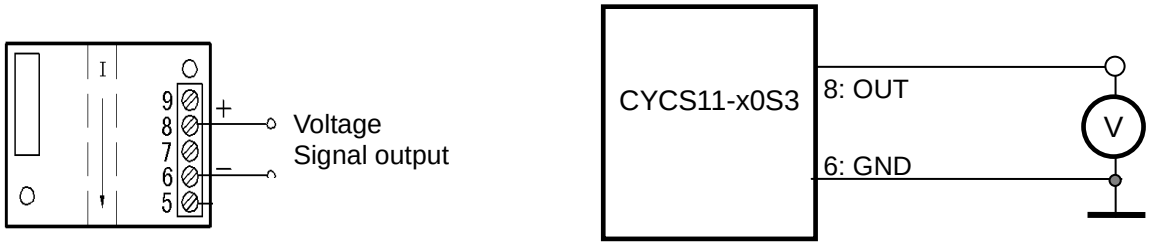
Dimensions (mm)



Dimensions: 76mm x 83mm x 36mm
Aperture: Ø20mm

Connection

The current carrying cable must pass through the window. The phase of output is the same as that of the current passing the window in the direction of the arrow indicated on the case.



6: GND 8: Voltage output

Application:

1. Multi-point current sensing and control panels
2. Monitor motor faults
3. Monitor heating elements
4. Monitor lighting elements

Notice:

1. The conductor carrying the input current should pass through the center of the aperture as perpendicularly as possible.

2. Make sure that the polarities are in right connection.

3. If a meter is used to calibrate the output of the transducer, please make sure that the accuracy of the meter is higher than the transducer.

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