

DCS Series Specification

Split-Core AC Current 4 to 20mA Transducer

Features

- True RMS or MEAN current measurement device ※See ordering Guide
- Clamp on split core structure
- Output of standard 4 to 20mA DC
- Accuracy $\pm 2\%$ of I_{PN} @25°C(excluding offset)
- Maximum load resistance 300 Ω at Power Supply 24V
- 24 Vdc Loop Power 20...30Vdc
- Frequency bandwidth: 50~400Hz(Max.6kHz)
- Isolation Resistance @ 1000VDC: >1000 M Ω
- Operating Temperature: -20°C to 80°C
- Storage Temperature: -45°C to 85°C
- Max allowable current 120% continuous.

Part Numbers and Ratings

- DCS16P Series

Symbol	Unit	5A	10A	20A	30A	50A	75A	100A
I_{PN}	A_{RMS}	5	10	20	30	50	75	100

- DCS24P Series

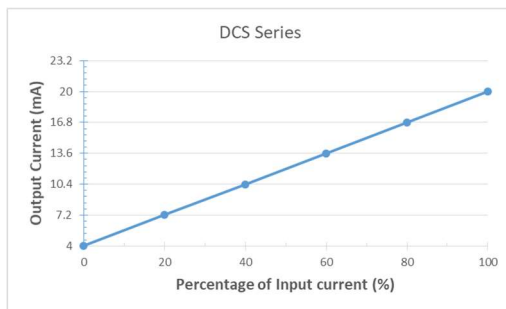
Symbol	Unit	5A	10A	20A	30A	50A	75A	100A	150A	200A	250A
I_{PN}	A_{RMS}	5	10	20	30	50	75	100	150	200	250

- DCS35P Series

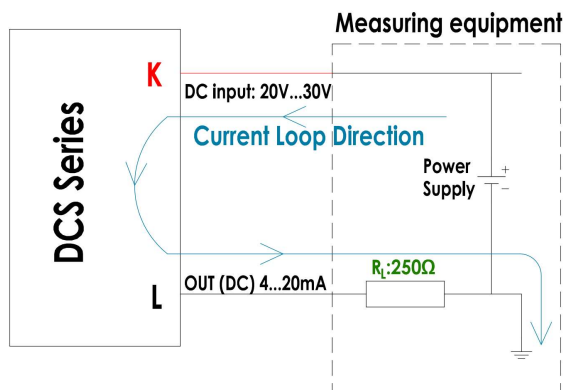
Symbol	Unit	80A	100A	200A	300A	400A	500A	600A
I_{PN}	A_{RMS}	80	100	200	300	400	500	600

- I_{PN} : Nominal Input Current

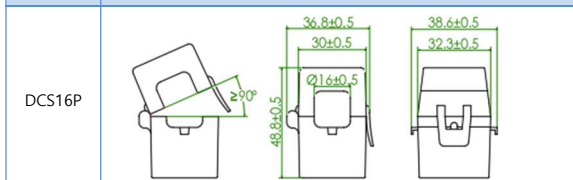
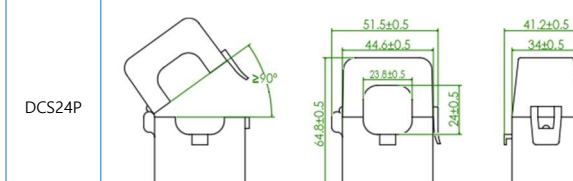
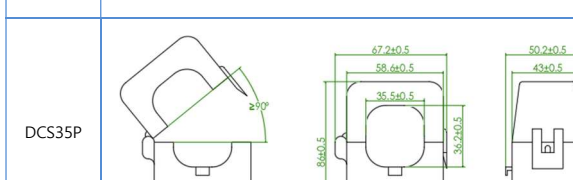
Output Current Chart



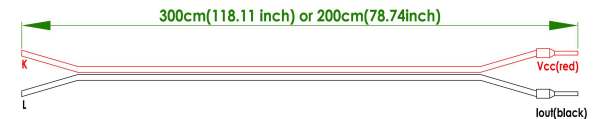
Connections



Dimensions / pin identification

Series	Dimensions
DCS16P	
DCS24P	
DCS35P	

- Cable length: 200cm or 300cm, 22AWGx2c, pin hole terminals



No.	Wire Color	Description
1	K (red)	Input DC
2	L (Black)	I out

Ordering Guide

DCS□□P○○○A-CL420◇

symbol	Unit	description
□□P	aperture size	16P=Ø16, 24P=Ø24, 35P=Ø35
○○○A	Ampere	※ See: Part Numbers and Ratings
◇	Measurement method	A : MEAN , None: True RMS

Additional information

Manufacturer: DIWELL Electronics Co., Ltd. (South Korea)
 Quotation request: sale01@diwell.com , sale02@diwell.com
 Technical support: tech01@diwell.com, dsjeong@diwell.com

Revision history

Version	Date(Y,M,D)	Description
1.0.0	2023. 11. 6.	Initial release
1.0.1	2025. 3. 13.	Cable length updated;(300cm → 200cm or 300cm)
1.0.2	2025. 5. 16.	Updated model naming: added suffix to indicate measurement method
1.0.3	2025. 11. 5	Modifying Drawings