

Description

With the current converter AD-SWK 6 WG up to three independent alternating current magnitudes can be converted to three alternating voltages of 0-10 V. The frequency-response curve at the output is equivalent to input. There are 3 switchable input ranges available. Inputs, outputs and supply voltage are galvanically separated from each other. The outputs refer to a common mass. An integral electronic wide range power pack with high efficiency prevents strong increase in heat.

Application

For conversion of up to three alternating currents to three alternating voltages



Business data

Order number
AD-SWK 6 WG

Information

Downloads

Technical specifications

Input

Measuring range	0 ... 1,5 / 2 / 3 A ACs- switchable
Max. measurable harmonic	80 (4 kHz)
Ct size (inside diameter)	<8 mm
Permanent overload	120 % of the rated value
Temporary overload (1s)	rated value x 20

Output

Output range	0 ... 10 V ACs (7,07 V ACeff)
Min. burden	10 kOhm

Accuracy

Unit	<0,5 %
Temperature influence	<100 ppm / K
Phase backfill Input/Output	output 3,6° lagging

Supply

Supply voltage AC	50 ... 253 V AC
Nominal voltage AC	230 V AC
Supply voltage DC	20 ... 253 V DC
Nominal voltage DC	24 V DC
Power consumption AC / DC	1,8 VA / 0,8 W

Housing

Connection method input	split core current transformer
Connection method	spring force terminal
Manner of fastening	35 mm DIN rail 35mm
Dimensions (WxHxD)	138x80x64(88)mm
Weight	280 g

Environmental conditions

Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)

EMC

Product family standard	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1
During checking, slight signal deviations are possible	

Electrical safety requirements

Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2
Safety measurement	EN 61010-2-030
Measurement category	CAT III

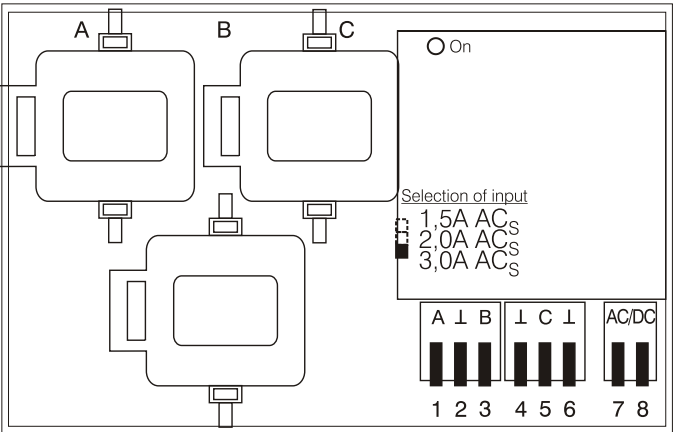
Galvanic isolation, test voltages

Input/output	2,2 kV AC + Test voltage of the cable of minimum 1000 V
Signal/auxiliary voltage	3 kV RMS
Working voltage	300 V AC/DC

Protective systems

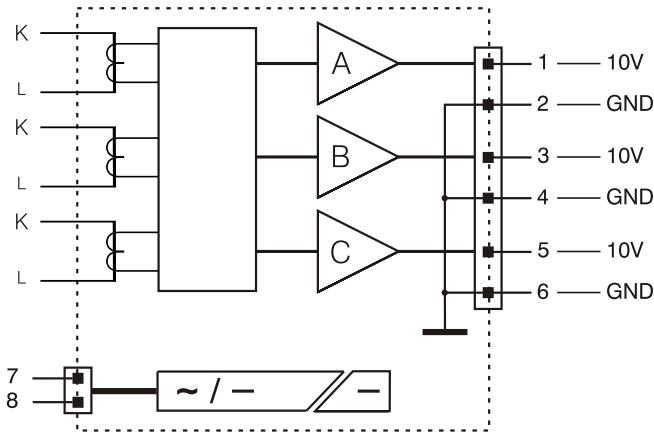
Input/output	over voltage and over current
Power supply	over voltage, over current and over temperature

Display and operating elements



On: LED for operating display in green
Selection of input: Switch for the input ranges

Block and wiring diagram



Dimensions

