

2906236

https://www.phoenixcontact.com/us/products/2906236

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Set consisting of a 4-way signal conditioner with push-in connection technology and a Rogowski coil 600 mm in length/190 mm in diameter for AC current measurement on busbars and power lines.

The signal conditioner outputs 8 different standard signals on the output side and has one switching output.

Commercial data

Item number	2906236
Packing unit	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 223 (C-5-2019)
GTIN	4055626048345
Weight per piece (including packing)	447.3 g
Weight per piece (excluding packing)	420.1 g
Customs tariff number	85437090
Country of origin	DE



2906236

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Technical data

Product properties

Product type	Current transformer
Data management status	
Article revision	03
Insulation characteristics	
Overvoltage category	
Pollution degree	2
ectrical properties	
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Typical measuring error	< 1 %
Protective circuit	Surge protection; 33 V suppressor diode
Step response (0–99%)	110 ms
Rated insulation voltage	300 V
Measuring coil	
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV DC (60 s)
Basic accuracy	<± 0.2 %
Measuring transducers	
Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	16 Hz 1000 Hz
Test voltage	3 kV (50 Hz, 1 min.)
General Can be calibrated	no
Class	1
Accuracy class	1
Converter type	Rogowski coil and 4-way signal conditioner
Converter type	
Supply: Measuring transducers	
Nominal supply voltage	24 V DC
Nominal supply voltage range	9.6 V DC 30 V DC
Power consumption	≤ 1 W (at I _{OUT} = 20 mA, 9.6 V DC, 600 Ω load)

Input data

Frequency



2906236

https://www.phoenixcontact.com/us/products/2906236

Designation	Measuring coil
Frequency measuring range	40 Hz 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %
Signal	
Input signal (at 50 Hz)	100 mV (1000 A)
Curve type	Sine
Input impedance	> 100 kΩ
Current transformer	
Configurable/programmable	Via DIP switches
Rated frequency: Standard converter	40 Hz 20000 Hz
Primary rated current Ipn	0 A AC 100 A AC
	0 A AC 250 A AC
	0 A AC 400 A AC
	0 A AC 630 A AC
	0 A AC 1000 A AC
	0 A AC 1500 A AC
	0 A AC 2000 A AC
	0 A AC 4000 A AC
Can be calibrated	no
Class	1
Accuracy class	1
Converter type	Rogowski coil and 4-way signal conditioner

Output data

Switching: Transistor

0	
Number of outputs	1
Contact switching type	1 N/O contact
Minimum switching voltage	1 V
Maximum switching voltage	30 V DC
Min. switching current	100 µA
Max. switching current	100 mA (at 30 V)
Signal	
Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	V _{OUT} = M * dl/dt
Output voltage (sinusoidal, in no-load operation)	100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))
Accuracy class	1
Signal	
Designation	Measuring transducer
Configurable/programmable	Yes



2906236

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Voltage output signal	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	0 V 10.5 V (can be set via software)
Max. voltage output signal	∞℃℃
Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	0 mA 10 mA (via DIP switch)
	2 mA 10 mA (via DIP switch)
	0 mA 21 mA (can be set via software)
Max. current output signal	24.6 mA
Load/output load voltage output	≥ 10 kΩ
Load/output load current output	≤ 600 Ω (20 mA)
Ripple	< 20 mV _{PP}
	< 20 mV _{PP}

Connection data

Measuring transducer side	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	26 12

Dimensions

Item	dime	nsions
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Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm
Measuring coil	
Length	600 mm
Diameter	8.3 mm ±0.2 mm
Measuring coil when installed	
Diameter	190 mm
Signal line	
Length	3 m
Width	6.2 mm
Height	110.5 mm

120.5 mm

Material specifications

Depth



2906236

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Housing material	PC
	PBT
Coil material	Elastollan

Environmental and real-life conditions

Ambient conditions	
Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-30 °C 80 °C (Measuring coil)
	-40 °C 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C 80 °C (Measuring coil)
	-40 °C 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)

Approvals

CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
СМІМ	
Certificate	CMIM-compliant
UL, USA/Canada	
Identification	UL 61010 Recognized
Note	Measuring coil
UL, USA/Canada	
Identification	UL 508 Listed
Note	Measuring transducer

EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Standards and regulations

Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Standards/regulations	IEC 61010-1
	IEC 61010-2-032



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Mounting type

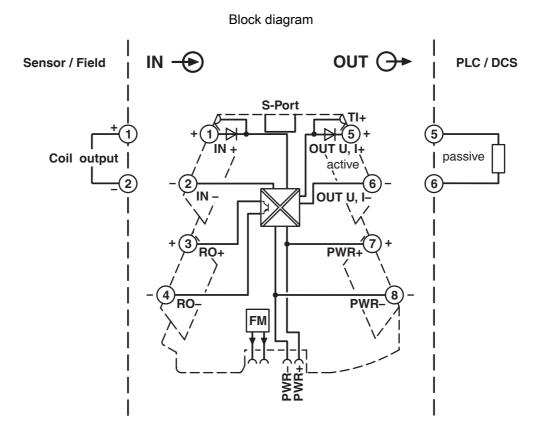
DIN rail mounting



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Drawings





2906236

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Classifications

ECLASS

ECLASS-11.0	27210902
ECLASS-13.0	27210902
ECLASS-12.0	27210902

ETIM

	ETIM 8.0	EC002048			
UN	UNSPSC				
	UNSPSC 21.0	39121000			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	bbdf0fb4-b8c2-4f78-bb83-553a7d440ba6



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Accessories

PACT RCP-CLAMP - Holder

2904895 https://www.phoenixcontact.com/us/products/2904895



The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

PACT RCP-CLAMP-5-10 - Holder

2907888

https://www.phoenixcontact.com/us/products/2907888



The optional holding device ensures the Rogowski coil is securely seated on busbars that are 5 ... 10 mm thick. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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