

2906231

https://www.phoenixcontact.com/au/products/2906231

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Set consisting of a 4-way signal conditioner with screw connection technology and a Rogowski coil 300 mm in length/95 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	2906231
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMMA12
Product key	CMMA12
Catalog page	Page 223 (C-5-2019)
GTIN	4055626048147
Weight per piece (including packing)	337 g
Weight per piece (excluding packing)	337 g
Customs tariff number	85437090
Country of origin	DE



2906231

https://www.phoenixcontact.com/au/products/2906231

Technical data

Product properties

Product type	Current transformer
Insulation characteristics	
Overvoltage category	II II
Pollution degree	2

Electrical 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)
Accuracy class	0.2 (IEC 61869-10: A1)

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
Converter type	Rogowski coil and 4-way signal conditioner

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

Designation	Measuring coil	
Frequency measuring range	40 Hz 20000 Hz	
Signal		
Input signal (at 50 Hz)	100 mV (1000 A)	



2906231

https://www.phoenixcontact.com/au/products/2906231

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 I _{pn}	0 A AC 100 A AC
, p	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
Converter type	Rogowski coil and 4-way signal conditioner
.to.ut alata	
ıtput data	
Switching: Transistor	
Number of outputs	1
Contact switching type	1 N/O contact
Minimum switching voltage	1 V

Signal

Maximum switching voltage

Min. switching current

Max. switching current

Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	$V_{OUT} = M * dI/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μ H; example: At 50 Hz; I = 1,000 A))

30 V DC

100 μΑ

100 mA (at 30 V)

Signal

Designation	Measuring transducer
Configurable/programmable	Yes
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)



2906231

https://www.phoenixcontact.com/au/products/2906231

	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	Screw connection
Stripping length	10 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	26 16
Tightening torque	0.5 Nm 0.6 Nm

Dimensions

Item dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Measuring coil

Length	300 mm
Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	95 mm
Signal line	

Length	3 m
Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Material specifications

Housing material	PC
	PBT
Coil material	Elastollan

Environmental and real-life conditions

Ambient conditions



2906231

https://www.phoenixcontact.com/au/products/2906231

Mounting type

Measuring coil degree of protection	IP54 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation) (Measuring coil)	-30 °C 80 °C (Measuring coil)
Ambient temperature (operation) (Measuring transducer)	-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)
pprovals	
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
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	
Standards/regulations	EN 61000-6-4
tandards and regulations	
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Standards/regulations	IEC 61010-2-030
	IEC 61869-10
ounting	

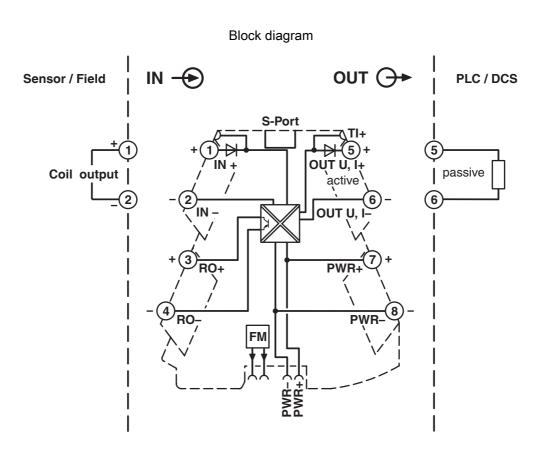
DIN rail mounting



2906231

https://www.phoenixcontact.com/au/products/2906231

Drawings





2906231

https://www.phoenixcontact.com/au/products/2906231

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2906231



EAC

Approval ID: RU*DE*08.B.01187/19



2906231

https://www.phoenixcontact.com/au/products/2906231

Classifications

	ECLASS-13.0	27210902
E ⁻	ГІМ	
	ETIM 9.0	EC002048
UI	NSPSC	
	UNSPSC 21.0	39121000



2906231

https://www.phoenixcontact.com/au/products/2906231

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	f9be511c-90ae-4045-82c9-6c1f82b52b2e

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au