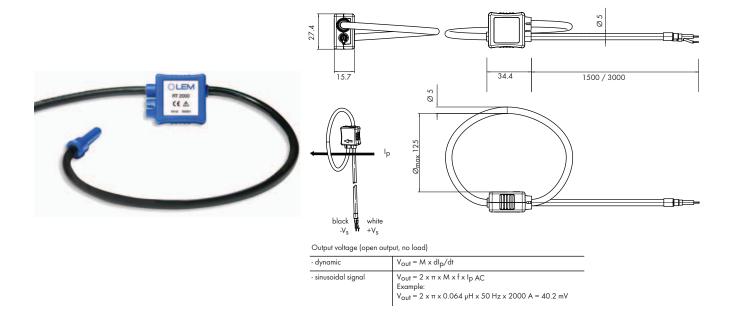
Rogowski Coils RT 2000





Short description:

The Rogowski coil is a closed-air coil with non-magnetic split core, placed around a conductor or a current bar.

The magnetic field produced by the AC current flowing through the conductor induces an output voltage in the coil.

This measurement procedure provides galvanic isolation between the primary circuit (power) and secondary circuit (measurement).

Easy placement of the Rogowski coils allows existing systems to be retrofitted without time-consuming installation or process interruption.

The Rogowski coil can be used together with the 857-552 Rogowski Signal Conditioner.

Features:

Postfach 2880 - D-32385 Minden

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- Split-core style coil for easy installation
- Ø 125 mm coil aperture for non-contact measurement
- 1.5 m or 3 m output cable
- Insulated plastic case to UL 94-V0

Description	Item No.	Pack. Unit
Rogowski coil RT 2000,		
1.5 m output cable	855-9100/2000-000	3
Rogowski coil RT 2000,		
3 m output cable	855-9300/2000-000	3
Approvals		
Conformity marking	C€	
Standards/Specifications	IEC 61010-1:2001 (2nd edition)),
	IEC 61010-2-032:2002,	
	IEC 61010-031:2002 + A1:200	8
Technical Data		
Technical Data		
	2000 A _{rms}	
Electrical data	2000 А _{rms} 190 µН	
Electrical data Primary rated current I _{pN}	11110	
Electrical data Primary rated current I _{pN} Coil inductance (± 5 %)	190 _P H	perature
Electrical data Primary rated current I _{pN} Coil inductance (± 5 %)	190 μH 60 Ω	perature
Electrical data Primary rated current I _{pN} Coil inductance (± 5 %)	190 μH 60 Ω (at 20 °C ambient operating tem	perature
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Electrical data Primary rated current I _{pN} Coil inductance (± 5 %) Coil resistance	190 μH 60 Ω (at 20 °C ambient operating tem typ.) 0.064 μH	
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Electrical data Primary rated current I _{pN} Coil inductance (± 5 %) Coil resistance Transfer ratio M	190 μH 60 Ω (at 20 °C ambient operating tem typ.) 0.064 μH (WAGO provides uncalibrated of 5 % tolerance) Example shown above	oils with
Electrical data Primary rated current I _{pN} Coil inductance (± 5 %) Coil resistance Transfer ratio M	190 μH 60 Ω (at 20 °C ambient operating tem typ.) 0.064 μH (WAGO provides uncalibrated co	oils with

Technical Data		
Accuracy and dynamic performance:		
Linearity error	none	
Temperature coefficient	30 ppm/K, related to transfer ratio M	
Positioning error	855-9100/2000-000: max. 0.65 %	
	855-9300/2000-000: max. 0,80 %	
	(considering a primary conductor of at	
	least Ø 15 mm perpendicular to the coil)	
Safety and protection:		
Nominal isolation voltage	300 V _{rms}	
	(between primary conductor and ground)	
Voltage for isolation test	3.5 kV _{rms} AC / 50 Hz / 1 min	
Impulse withstand voltage (1.2/50 µs)	6.5 kV	
Adjacent contacts	6 mm / 6 mm	
Comparative Tracking Index		
(CTI, group I)	600 V (plastic parts)	
Degree of protection	IP2X	
General specifications:		
Cable length	855-9100/2000-000: 1.5 m	
	855-9300/2000-000: 3 m	
Ambient operating temperature	-10 °C +65 °C	
Storage temperature	-25 °C +70 °C	
Weight	90 g	

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