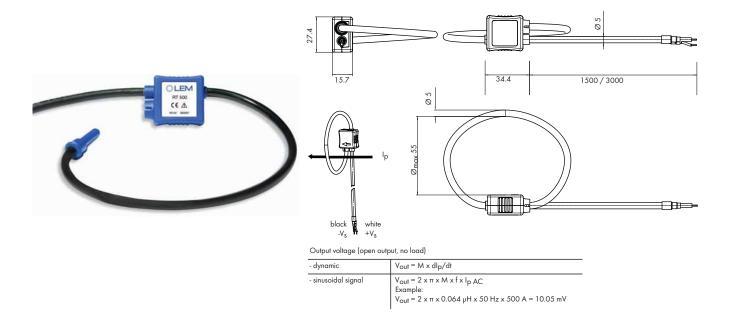
## Rogowski Coils RT 500





## 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 789-652 Signal Conditioner or the 857-552 Rogowski Transducer.

## Features:

Postfach 2880 - D-32385 Minden

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- Split-core style coil for easy installation
- Ø 55 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 500,			
1.5 m output cable	855-9100/500-000	3	
Rogowski Coil RT 500,			
3 m output cable	855-9300/500-000	3	
Approvals			
Conformity marking	(€		
Standards/Specifications	IEC 61010-1:2001 (2nd edition	on),	
	IEC 61010-2-032:2002,		
	IEC 61010-031:2002 + A1:2	IEC 61010-031:2002 + A1:2008	
Technical Data			
Electrical data:			
Primary rated current I <sub>pN</sub>	500 A <sub>rms</sub>		
Coil inductance (± 5 %)	125 µH		
Coil resistance	40 Ω		
		(at 20 °C ambient operating temperature,	
T ( ).4	typ.)		
Transfer ratio M	0.064 µH (WAGO provides uncalibrated coils with		
	5 % tolerance)	COIIS WITH	
Output signal	5 % folerance) Example shown above		
Oulput signal	10.05 mV at I <sub>DN</sub> = 500 A, sinusoidal,		
	50 Hz (open output, no load)	usoluul,	
Max. operating frequency			
	700 kHz (open output, no loa	4)	

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Technical Data		
Accuracy and dynamic performance:		
Linearity error	none	
Temperature coefficient	30 ppm/K, related to transfer ratio M	
Positioning error	855-9100/500-000: max. 0.65 %	
	855-9300/500-000: 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 <sub>rms</sub>	
	(between primary conductor and ground)	
Voltage for isolation test	3.5 kV <sub>rms</sub> 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,	600 V (plastic parts)	
Degree of protection	IP2X	
General specifications:		
Cable length	855-9100/500-000: 1.5 m	
	855-9300/500-000: 3 m	
Ambient operating temperature	-10 °C +65 °C	
Storage temperature	-25 °C +70 °C	
Weight	85 g	

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