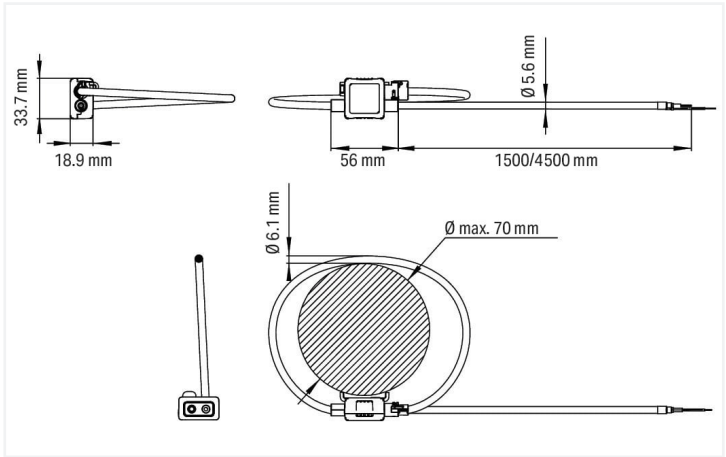




Dimensions in mm

Kurzbeschreibung:Die Rogowski-Spulen werden zur Strommessung von AC-Strömen eingesetzt und eignen sich besonders für die nachträgliche Installation in Bestandsanlagen. Der teilbare Spulenkörper ermöglicht die nachträgliche Installation um den Primärleiter herum – wahlweise Stromschiene oder Rundleiter. Die Rogowski-Spulen eignen sich zum Anschluss an die WAGO Produkte (857-552; 750-495/000-002; 2857-570/024-000). Ein plomberbarer Bajonettverschluss und Befestigungslaschen für Kabelbinder ermöglichen eine leichte Installation.

Notes	
Note	Rogowski technology allows the coils to measure a wide primary current range of up to 10,000 A without loss of accuracy, because there are no saturation effects. The requirements for standards EN 61869-1, EN 61869-2, EN 61869-6 and EN 61869-10 are only partially met, as there are fundamental differences with current transformers for a Rogowski coil.

Technical data			
Input		Input – current transformer	
Measurement range	10 A ... 10000 A (up to 4000 A in combination with the recommended WAGO products)	Rated short-time thermal current I_{th}	300 kA at 50 Hz
Measured variable	Current	Mutual inductance M	71.98 nH
		Rated frequency	50 ... 60 Hz
		Primary rated current	1000 A
Output – analog		Signal processing	
Sensitivity	22.5 mV/kA at 50 Hz	Limit frequency	344 kHz
Output signal (max.)	30 V		

Measurement error	
Accuracy class	0.5
Translation errors (all positions)	0.75 %
Translation errors (note)	Assuming that a primary conductor with a minimum diameter of 15 mm is used that is routed perpendicular to and in contact with the coil.



Safety and protection		
Rated voltage	1000 VAC _{rms} (Cat. III); 600 VAC _{rms} (Cat. IV)	
Impulse withstand voltage (1.2/50 µs)	12.8 kV	
Protection type	IP57	
Voltage for isolation test	AC 7.4 kV; 50 Hz; 1 min	
Connection data		
Feedthrough for measurement conductor	Ø 70 mm	
Physical data		
Cable length	4.5 m	
Mechanical data		
Mounting type	Split-core current transformer (suspended)	
Material data		
Fire load	0 MJ	
Weight	130 g	
Environmental requirements		
Ambient temperature (operation)	-40 ... +80 °C	
Ambient temperature (storage)	-40 ... +80 °C	
Relative humidity	≤ 90% (without condensation)	
Operating altitude (max.)	2000 m	
Standards and specifications		
Conformity marking	CE	
Standards/specifications	EN 61010-1 EN 61010-2-32 EN 61869-1 EN 61869-2 EN 61869-6 EN 61869-10 UL 61010-1	
Commercial data		
eCl@ss 10.0	27-21-09-02	
eCl@ss 9.0	27-21-09-02	
ETIM 8.0	EC002048	
ETIM 7.0	EC002048	
PU (SPU)	1 pcs	
Packaging type	Bag	
Country of origin	BG	
Customs tariff number	90303370000	



Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor-	-	-
EAC	TP TC 004/2011,TP TC	EAC RU C-DE.AM02.	mity		
Brjansker Zertifizierungs-	020/2011	B.00111/19	WAGO GmbH & Co. KG		
stelle					
UL	UL 61010-2-032	E499682			
Underwriters Laboratories					
Inc.					

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance	↓
855-9450/2000-701	

Documentation

Bid Text				Instruction Leaflet			
855-9450/2000-701	24.01.2019	docx	17.95 KB	↓	Rogowski-Spulen	V 1.1.0	pdf
					RC70 / RC125 / RC175		1698.78 KB
							↓
855-9450/2000-701	24.01.2019	xml	6.06 KB	↓			

1 Compatible Products

1.1 Optional Accessories

1.1.1 Signal conditioner

1.1.1.1 Current signal conditioner



Item No.: 857-552
Current signal conditioner; Input for Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

1.1.1.2 Power measurement module



Item No.: 2857-570/024-000
3-Phase Power Measurement Module;
3x277/480 V/RC; Modbus RTU; Digital out-
put; Configuration via software; Supply
voltage: 24 VDC

Installation Notes

Installation



Bayonet connector:
Robust and durable



Screw-mount clips:
Quick and easy mounting with cable ties



Lock-out seal:
Greater security via sealable bayonet lock