We connect and protect

nVent ERIFLEX Rogowski Sensors

Flexible, lightweight, and easy to install, nVent ERIFLEX Rogowski coils are ideal for retrofitting and energy monitoring applications. These sensors have been used for decades to measure alternating current (AC) with high accuracy and reliability.

Thanks to their air-core design, Rogowski coils eliminate the need for a magnetic core, resulting in a non-saturating, flexible structure that can be easily looped around conductors. This design ensures precise measurement of the AC component without distortion, even under high current conditions.

The Rogowski coil operates on a simple yet effective principle: an air-cored toroidal coil is placed around the conductor. The magnetic field generated by the AC current induces a voltage in the coil, which is proportional to the rate of change of the current. This signal is then integrated electronically to produce an output that is directly proportional to the current flowing through the conductor.

CERTIFICATIONS

RoHS CE

FEATURES

- Flexible AC current sensor, ideal for both new installations and retrofit applications
- Quick and simple installation, even on large-diameter cables or conductors. Compact, space-saving, and user-friendly
- High system uptime enabled by non-intrusive installation. No need to disconnect or dismantle existing components
- Secure fit on busbars, round conductors, and all types of ERIFLEX conductors including Flexibar, FleXbus, and IBSB
- Excellent linearity with no saturation and no upper current limit, ensuring reliable performance across a wide range of applications
- Live installation capability: can be mounted while the system is energized, ensuring service continuity with no downtime or mechanical constraints
- Supplied with mounting bracket and plastic ties for fast and secure attachment

SPECIFICATIONS

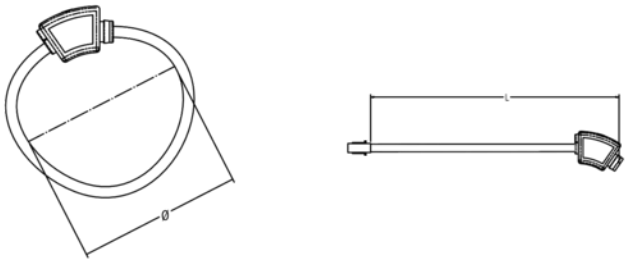
Output Connection:	3 x 22 AWG Shielded
Frequency:	50 - 60 Hz
Loop Resistance:	70 - 900 Ω
Max Current:	100kA
Operating Temperature:	-30 to 80 °C
Storage Temperature:	-40 to 80 °C
Current Measurement Accuracy:	Class 0.5-A1 per IEC 61869-10
Complies With:	IEC 60529
Installation:	Internal;Indoor
Protection Rating:	IP67
Outer Jacket Material:	Thermoplastic Polyurethane UL94-V0
Color:	Yellow

Table 1/1

Catalog Number	Article Number	Diameter	Length (L)	Cable Length	Unit Weight
ROG300	509000	8mm	300mm	3m	0.15 kg
ROG350	509001	10mm	350mm	3m	0.16 kg
ROG450	509002	14mm	450mm	3m	0.16 kg
ROG600	509004	19mm	600mm	5m	0.17 kg
ROG550	509003	17mm	550mm	5m	0.17 kg
ROG800	509005	25mm	800mm	5m	0.19 kg

	ROG300	ROG350	ROG450	ROG550	ROG600	ROG800
Cord diameter	8.3 ±0.2 mm					
Fastening system	Bayonet holder for secure and easy mounting					
Nominal output	100 mV/kA @ 50 Hz (RMS)					
Overvoltage category	1000 V CAT III / 600 V CAT IV					
Insulation test voltage	7400 V RMS for 5 seconds					

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

North America
+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical Support

Europe
Netherlands:
+31 800-0200135
France:
+33 800 901 793

Europe
Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC
Shanghai:
+ 86 21 2412 1618/19
Sydney:
+61 2 9751 8500