

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.

CERTIFICATION



DESIGN

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

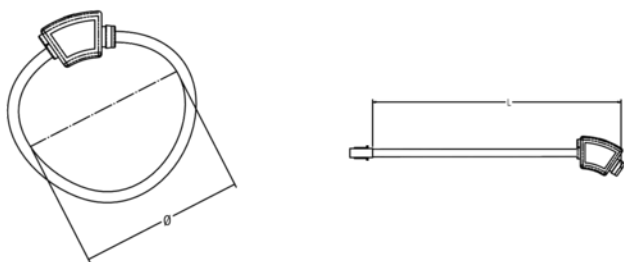
SPECIFIKATIONER

Utgångsanslutning:	3 x 22 AWG skärmad
Frekvens:	50 - 60 Hz
Slingresistans:	70 - 900 Ω
Max. ström:	100kA
Noggrannhet för strömmätning:	Klass 0.5-A1 enligt IEC 61869-10
Överensstämmer med.:	IEC 60529
Skyddsklass:	IP67
Ytterjacka material:	Termoplastisk polyuretan UL94-V0
Färg:	Gul
Drifttemperatur:	-30 to 80 °C
Förvaringstemperatur:	-40 to 80 °C

Table 1/1						
Katalognummer	Artikelnummer	Installation	Diameter	Längd (L)	Kabellängd	Enhetens vikt
ROG300	509000	Internt, Indoor	8mm	300mm	3m	0.15 kg
ROG350	509001	Internt, Indoor	10mm	350mm	3m	0.16 kg
ROG450	509002	Internt, Indoor	14mm	450mm	3m	0.16 kg
ROG550	509003	Internt, Indoor	17mm	550mm	5m	0.17 kg
ROG600	509004	Internt, Indoor	19mm	600mm	5m	0.17 kg
ROG800	509005	Internt, Indoor	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



VARNING

nVent produkter ska installeras och användas endast så som anges i nVents bruksanvisning och utbildningsmaterial. Bruksanvisningar är tillgängliga på www.nvent.com och från din nVent kundtjänstrepresentant. Felaktig installation, missbruk, felapplicering eller annan brist i att helt följa nVents instruktioner och varningar kan orsaka att produkten brister, egendomsskador, allvarliga kroppsskador och dödsfall och/eller ogiltigförklara din garanti.

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