

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.

认证



功能

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

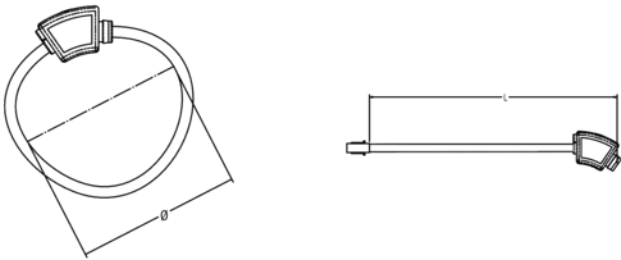
技术参数

- 输出连接: 3 x 22 AWG 屏蔽线缆
- 频率: 50 - 60 Hz
- 回路电阻: 70 - 900 Ω
- 最大电流: 100kA
- 电流测量精度: IEC 61869-10 标准 0.5-A1 级
- 符合: IEC 60529
- 防护等级: IP67
- 外护套材料: 热塑性聚氨酯 UL94-V0
- 颜色: 黄色
- 工作温度: -30 to 80 °C
- 存储温度: -40 to 80 °C

Table 1/1						
物料号	订货号	安装	直径	长度 (L)	电缆长度	单位重量
ROG300	509000	内部, Indoor	8mm	300mm	3m	0.15 kg
ROG350	509001	内部, Indoor	10mm	350mm	3m	0.16 kg
ROG450	509002	内部, Indoor	14mm	450mm	3m	0.16 kg
ROG550	509003	内部, Indoor	17mm	550mm	5m	0.17 kg
ROG600	509004	内部, Indoor	19mm	600mm	5m	0.17 kg
ROG800	509005	内部, 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					

图



警告

应仅根据 nVent 的产品说明书与培训材料安装并使用 nVent 的产品。可访问 www.nvent.com 获取说明书，或者向您的 nVent 客服代表索取。错误安装、使用不当、滥用或未能完全遵守 nVent 的说明与警告，可能会造成产品故障、财产损失、严重的人身伤害及死亡和/或使得保修服务无效。

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