

Electronic Track Signal Protector, 550 V @ 3 kA Voltage Protection Level (Up)

CATALOG NUMBER

ETSP330170



The nVent ERICO Electronic Track Signal Protector series provides transient protection from surges induced or conducted onto low-voltage signal circuits for trackside signaling equipment. The series of surge-protection devices is ideal for protecting DC-responsive track relays, train-detection systems, microprocessor-based train-control and indication circuits, train inspection systems, communications systems, highway crossing controls and other operationally sensitive systems.

nVent ERICO Electronic Track Signal Protector devices help ensure that surges do not pose a safety threat in the event of component failure. Indicators on the device help safeguard the device against shorts and provide status indication at a glance. The device cover is marked with the operating voltage and part number, which allows easy identification as to proper application.

FEATURES

Includes hybrid technology comprised of gap-type voltage switching and varistor-type voltage clamping components

Designed with a fail-safe, isolated from ground failure modes as required for critical signal circuits

Protects sensitive electronic equipment in exposed locations

Epoxy coating helps ensure stability of operation under adverse conditions and in locations of high humidity

Exceeds the AREMA® specifications for both arrestor and equalizer applications

Provides a 50 kA 8/20 maximum surge rating for protection that is suitable for exposed trackside equipment

PRODUCT ATTRIBUTES

Nominal System Voltage (Un): 170 VDC;120 VAC

Max Continuous Operating Voltage (Uc): 220 VDC;150 VAC

Voltage Protection Level (Up): 550 V @ 3 kA

Nominal Discharge Current (In), L+L-PE: 20kA 8/20 μ s

Max Discharge Current (Imax), L+L-PE: 50kA 8/20 μ s

Leakage Current @ Un: 1 nA Max

Frequency: 5 MHz Max

Protection Modes: Two Mode, L1-PE and L2-PE

Technology: Metal Oxide Varistor (MOV); Gas Discharge Tube (GDT)

Connection Type: AREMA® Stud-Type Terminals – 2 Post Terminal Block

Status Indication: Dual spring thermal disconnect

Enclosure Material: UL® 94V-0 Thermoplastic

Enclosure Rating: IP 20; NEMA®-1

Humidity: 0 - 90

Temperature: -40 to 80 °C

Depth (D): 25mm

Height (H): 75 mm

Width (W): 55 mm

Unit Weight: 0.1 kg

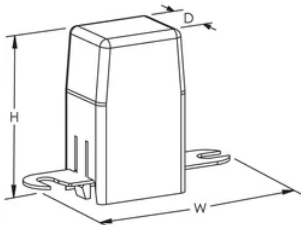
Complies With: ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; IEC® 61643-1 Class II; AREMA® requirements

Color: Yellow

ADDITIONAL PRODUCT DETAILS

Frequency @ 3 dB / 120 Ω.

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



Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

ILSCO

SCHROFF

TRACHTE