

Electronic Track Signal Protector



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.

FUNKTIONER

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

SPECIFIKATIONER

Table 1/2

Katalognummer	ETSP330170	ETSP33050
Nominal System Voltage (Un)	170 VDC 120 VAC	50 VDC 35 VAC
Max Continuous Operating Voltage (Uc)	220 VDC 150 VAC	90 VDC 65 VAC
Voltage Protection Level (Up)	550 V @ 3 kA	300 V @ 3 kA
Nominal Discharge Current (In), L+L-PE	20kA 8/20 µs	

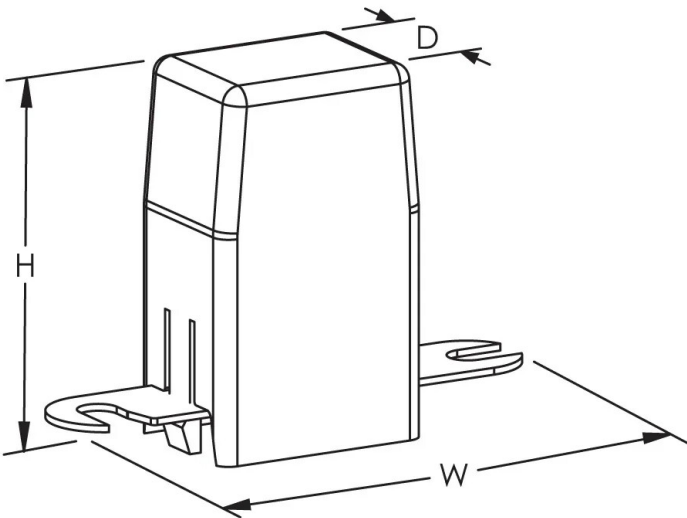
Katalognummer	ETSP330170	ETSP33050
Max Discharge Current (I _{max}), L+L-PE	50kA 8/20 µs	50kA 8/20 µs
Leakage Current @ U _n	1 nA Max	1 nA Max
Frequency	5 MHz Max	5 MHz Max
Protection Modes	Two Mode, L1-PE and L2-PE	Two Mode, L1-PE and L2-PE
Technology	Metal Oxide Varistor (MOV) Gas Discharge Tube (GDT)	Metal Oxide Varistor (MOV) Gas Discharge Tube (GDT)
Tilslutningstype	AREMA® Stud-Type Terminals – 2 Post Terminal Block	AREMA® Stud-Type Terminals – 2 Post Terminal Block
Status Indication	Dual spring thermal disconnect	Dual spring thermal disconnect
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20 NEMA®-1	IP 20 NEMA®-1
Humidity	0 - 90	0 - 90
Temperature	-40 to 80 °C	-40 to 80 °C
Dybde (D)	25mm	25mm
Height (H)	75 mm	75 mm

Table 2/2

Katalognummer	ETSP330170	ETSP33050
Width (W)	55 mm	55 mm
Unit Weight	0.1 kg	0.1 kg
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C IEC® 61643-1 Class II AREMA® requirements	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C IEC® 61643-1 Class II AREMA® requirements
Farve	Yellow	Transparent

YDERLIGERE PRODUKTOPLYSNINGER

Frequency @ 3 dB / 120 Ω.



ADVARSEL

nVent-produkter skal kun installeres og anvendes som angivet i nVents produktvejledninger og træningsmaterialer. Vejledninger er tilgængelige på www.nvent.com og hos din nVent kundeservicerepræsentant. Forkert installation, misbrug, fejlanvendelse eller anden undladelse af fuldt ud at følge nVents instruktioner og advarsler kan medføre funktionsfejl, materielle skader, alvorlige personskader eller død og/eller ugyldiggøre din garanti.

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