

GDT-H1-3G

Track circuit surge protectors

The GDT-H1-3G is an all mode surge protector for railway track circuit signalling. It comprises three GDT-100-350-RPU high energy gas discharge tubes connected to provide both transverse and common mode protection. These are mounted on a non-conductive backplane, held in place by stainless steel M6 fasteners. Clips are provided for optional DIN TS35 rail mounting.

The GDTs are easily replaceable by loosening the mounting bolts.

The GDT-H1-3G provides protection for a single pair. The GDT-H2-6G provides all mode protection for 2 signalling pairs.


A stainless steel enclosure is available as an option with the suffix-M.












Image for illustrative purposes only

Specifications

Electrical Specifications

Connection type		All mode
Active elements		3 Gas discharge tube (GDT)
DC spark over voltage	U_c	350V
Voltage tolerance		20%
Maximum discharge current (8/20 μ s)	I_{max}	150kA
Nominal discharge current (8/20 μ s)	I_n	100kA
Lightning impulse current (10/350 μ s)	I_{imp}	30kA
Voltage protection level @ 1kV/ μ s		<800V
Isolation resistance		10G Ω
Capacitance		<10pF


Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		65°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		DIN TS35
Environmental rating		IP67
Length		145mm
Width		140mm
Height		45mm

Shipping Specifications

Weight		800g
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Other Specifications

Product Code		GDT-H1-3G
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