



IEC/EN Category:	C1/C2/C3
Mode of Protection:	Transverse, Differential
Voltages:	110V DC
Maximum Operating Voltage:	170V DC
Surge Discharge Ratings:	I_n : 5 kA, I_{max} : 10 kA
Series Load Current:	6 A
Enclosure:	PCB Hybrid
Terminals:	Flying Leads or Screw Terminals
Housing:	Compact Design
Compliance:	IEC/EN 61643-21

The RayDat GD Series is intended as a generic protector for data circuits.

It provides coarse protection via a three terminal gas discharge tube.

An internal thermal disconnecter provides protection during mains incursion.

Technical Data

GD

Electrical

Number of Protected Pairs		1 (2 conductors)
Nominal Operating Voltage (DC)	U_n	110V
Maximum Continuous Operating Voltage (DC)	U_c	170V
Rated Load Current at 25°C	I_L	6 A
C2 Nominal Discharge Current (8/20 μs)	I_n	5 kA
Maximum Discharge Current (8/20 μs)	I_{max}	10 kA
Residual Voltage at 5 kA (8/20 μs)	U_{res}	< 700V
Rated Spark Overvoltage	(Line-Ground)	184-312V
	(Line-Line)	184-624V
Response Time Overvoltage Protection	t_A	< 100 ns
Thermal Protection		Yes
Insulation Resistance of the Protection	R_{iso}	≥ 1 GΩ
Transverse Capacitance	C	< 1 pF
Cut-off Frequency	f_G	30 MHz

Mechanical

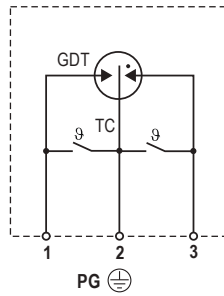
Temperature Range		-40 °C to +80 °C
Line Conductors Cross Section		0.5 mm ²
Ground Conductor Cross Section		0.75 mm ²
Connecting Conductor Length		150 mm
Degree of Protection IEC/EN 60529		IP 20
Housing Material		Thermoplastic; Grey; Extinguishing Degree V-0

Order Information

Order Code		
GD		127 701

RayDat GD

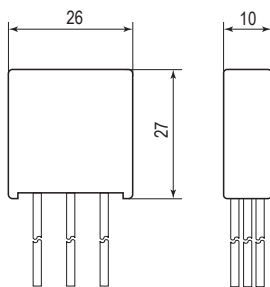
Internal Configuration



Legend

- GDT Gas Discharge Tube
- PG Protective Grounding
- TC Thermo-clip

Dimensions & Packaging



GD

Dimensions

Weight per Unit	12g
Packaging Dimensions (Single Unit)	61 × 49 × 21 mm
Minimum Package Quantity	30 pieces