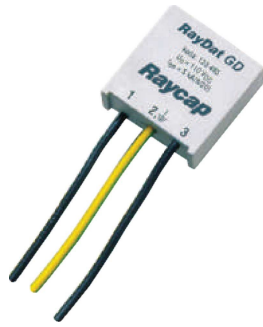


## SPD with Terminal Connection for Data Circuits

### RayDat GD

C1 • C2 • C3

IM-GD



IEC/EN Category: C1/C2/C3  
 Mode of Protection: Transverse, Differential  
 Voltages: 110V DC  
 Maximum Operating Voltage: 170V DC  
 Surge Discharge Ratings:  $I_n$ : 5kA,  $I_{max}$ : 10kA  
 Series Load Current: 6A  
 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	$I_L$	6A
C2 Nominal Discharge Current (8/20 μs)	$I_n$	5kA
Maximum Discharge Current (8/20 μs)	$I_{max}$	10kA
Residual Voltage at 5kA (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

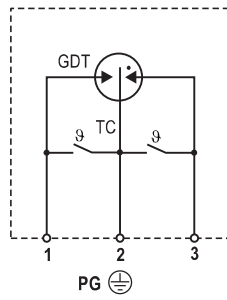
Temperature Range		-40 °C to +80 °C
Line Conductors Cross Section		0,5 mm <sup>2</sup>
Ground Conductor Cross Section		0,75 mm <sup>2</sup>
Connecting Conductor Length		150 mm
Degree of Protection IEC/EN 60529		IP 20
Housing Material		Thermoplastic; Grey; Extinguishing Degree V-0

##### Order Information

Order Code		
GD		127 701

## RayDat GD

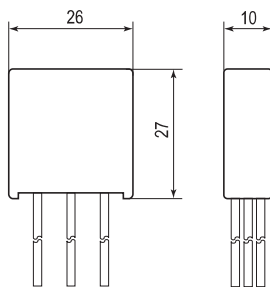
### Internal Configuration



#### 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