DATA SHEET

SPD with Visual Indication

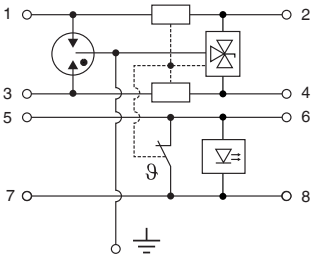
RayDat SRH-2L Series

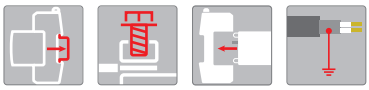
D1 • C1 • C2 • C3

UL Listed

IEC/EN Category: D1/C1/C2/C3
Surge Discharge Ratings: I_n: 10 kA, I_{max}: 20 kA, I_{imp}: 2.5 kA
Voltages: 5, 12, 24, 30 V DC
Frequency Range: 30 MHz
Housing: Modular Design
Compliance: IEC/EN 61643-21
UL 497B 4th Edition

Configuration:





Technical Data

SRH-2L Series			5	12	24	30
Electrical						
Lines Protected				1 (2 Conductors)		
Nominal Operating Voltage (DC)		U_n	5 V	12 V	24 V	30 V
Maximum Continuous Operating Voltage (DC)		U_c	6 V	15 V	28 V	33 V
Rated Load Current at 25°C		I_L		1 A		
C2 Nominal Discharge Current (8/20 µs)		I_n		10 kA		
Maximum Discharge Current (8/20 µs)		I_{max}		20 kA		
D1 Impulse Current (10/350 µs)		I_{imp}		2.5 kA		
Residual Voltage at 5 kA (8/20 µs)		U_{res}	< 22 V	< 42 V	< 70 V	< 80 V
Rated Spark Overvoltage	(Line-Ground)		7-10 V	16-21 V	31-37 V	36-44 V
	(Line-Line)		7-10 V	16-21 V	31-37 V	36-44 V
Response Time Overvoltage Protection		t_A		< 1 ns		
Thermal Protection				Yes		
Insulation Resistance of the Protection		R_{iso}	≥ 6 KΩ	≥ 15 MΩ	≥ 28 MΩ	≥ 33 MΩ
Serial Resistance per Path		R		1.6-2.0 Ω		
Transverse Capacitance		C		50 pF		
Cut-off Frequency		f_G		30 MHz		
Mechanical						
Temperature Range				-40 °F to +176 °F [-40 °C to +80 °C]		
Terminal Cross Section Multi-strand (max.)				12 AWG [4 mm²]		
Terminal Screw Torque				4.42 lbf·in [0.5 Nm]		
Degree of Protection IEC/EN 60529				IP 20 (built-in)		
Housing Material				Thermoplastic; Grey; Extinguishing Degree V-0		
Mounting IEC/EN 60715				35 mm DIN Rail		
Remote Contacts Ratings				AC 250 V/0.5 A, DC 50 V/1 A		

Order Information

Order Code	5	12	24	30
SRH-2-xxxL	7085.44	7085.46	7085.48	7085.42
SRH-2-xxxLM (module)	7085.45	7085.47	7085.49	7085.43
SRH-2-xxxLQ	7085.56	7085.58	7085.60	7085.62

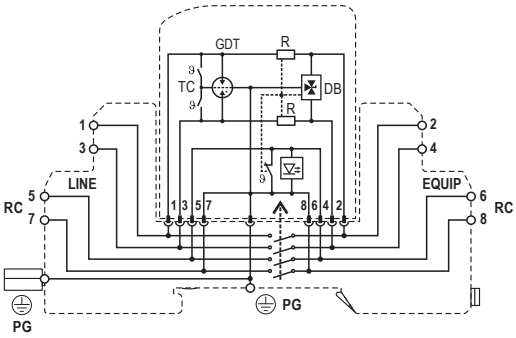
Information contained in this document is subject to change at any time without notice.

RayDat SRH-2L Series

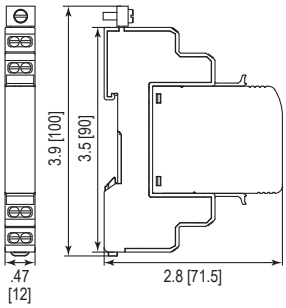
Internal Configuration

Legend

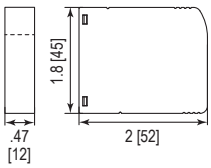
DB	*Diode Block*
GDT	*Gas Discharge Tube*
PG	*Protective Grounding*
R	*Resistor*
RC	*Remote Control (NC)*
TC	*Thermo-clip*



Dimensions & Packaging

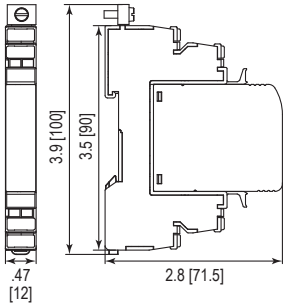


SRH-2L Series	5	12	24	30
Dimensions				
Weight per Unit	2.04 oz [58 g]			
Dimensions DIN 43880	2/3 TE			
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]			
Minimum Package Quantity	15 pieces			



SRH-2-xxxLM Series	5	12	24	30
Dimensions				
Weight per Unit	.85 oz [24 g]			
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]			
Minimum Package Quantity	15 pieces			

Quick Connect Terminals



SRH-2LQ Series	5	12	24	30
Dimensions				
Weight per Unit	2.11 oz [60 g]			
Dimensions DIN 43880	2/3 TE			
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]			
Minimum Package Quantity	15 pieces			

inches
[mm]

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RoHS COMPLIANT

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