

S05-2K5-POE

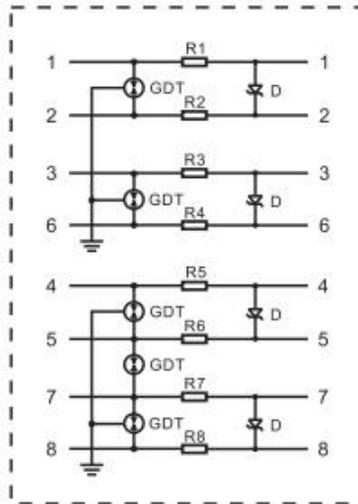
scope of application

Primarily designed for lightning protection of POE network devices powered by Category 5e Ethernet cables, this solution is installed at the interface between LPZ1 and LPZ3 lightning protection zones. It effectively mitigates damage to network equipment caused by overvoltage and overcurrent from lightning strikes and industrial interference.

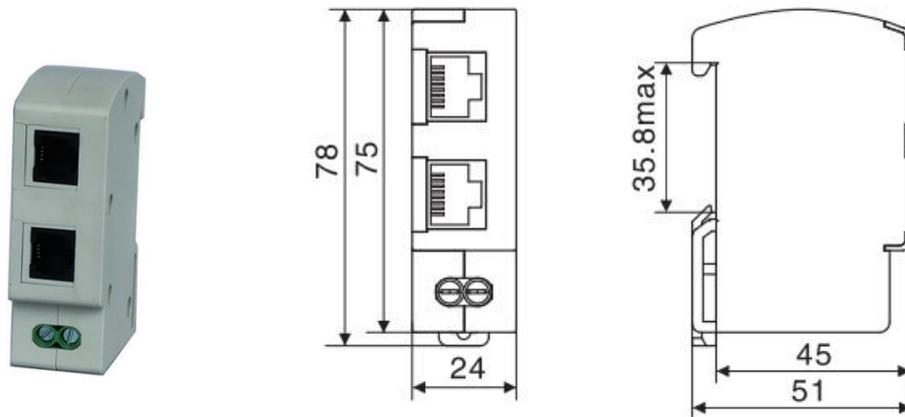
technical parameter

model	S05-2K5-POE
SPD basis: GB/T18802.21/IEC61643-21	C2
nominal voltage (Un)	Signal: 5V, Power Supply: 24V/48V
Maximum Continuous Operating Voltage (Uc)	Signal: 8V, Power Supply: 30V/60V
Nominal discharge current (8/20 μ s) [In]	0.1A (line-to-line), 2.5KA (line-to-ground)
Voltage protection level (Up) [line to line]	45V
Voltage protection level (Up) [line to ground]	500V
transmission speed	100MHz/1000MHz
insertion loss	≤ 0.5 dB
response time (t)	≤ 1 ns
Working temperature range (Tu)	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C
protective circuit	Lines 1, 2, 3, 4, 5, 6, 7, 8
Network devices	100MHz Ethernet device, 1000MHz Ethernet device, or POE device
maximum load current	0.4A per pair of wires
minimum installed conductor cross-sectional area	0.5mm ² single-strand/multistrand
maximum installed conductor cross-sectional area	4mm ² (PE side) single-strand/multistrand
way to install	35mm DIN rail, compliant with EN 60715
Shell material	Gray thermoplastic material, UL94 V-0
installation site	indoor
levels of protection	IP20
size	1.35 module, DIN 43880
relative humidity	$\leq 95\%$ No condensation

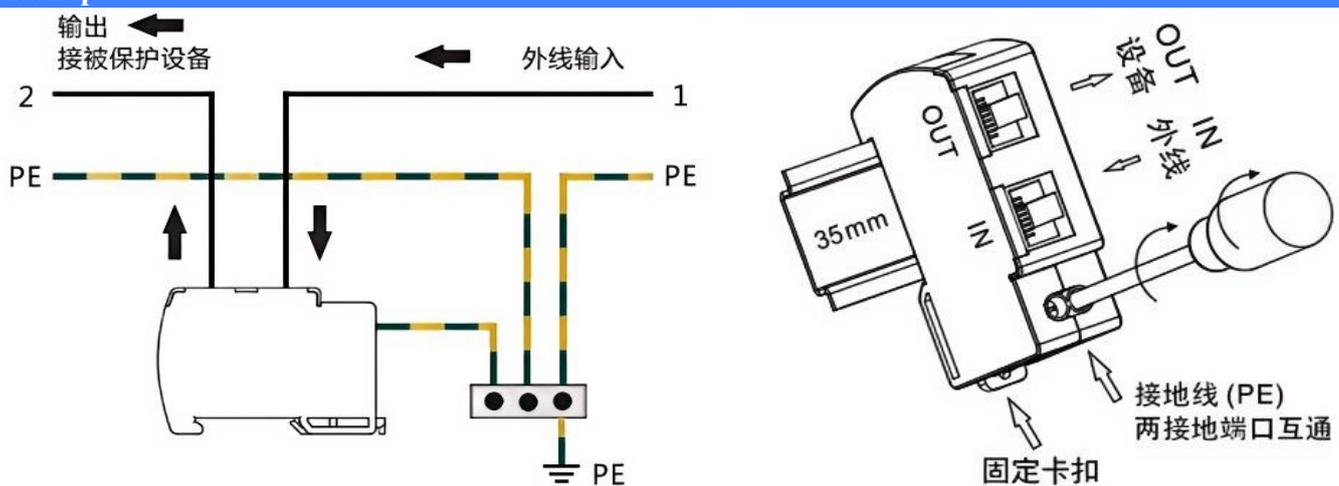
schematic diagram



outline dimensional drawing



hookup



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.