

WTH-SG/RJ45-KG Surge Protective Device for Ethernet & PoE

Paperless Datasheet

Going green and protecting the environment is manufacturers' responsibility. Watchful Eye products have the links of downloading data sheets in its enclosure:
<https://www.lansan.com.tr/wth-sg-rj45-kg-wth-sg-rj45-kg>

Description

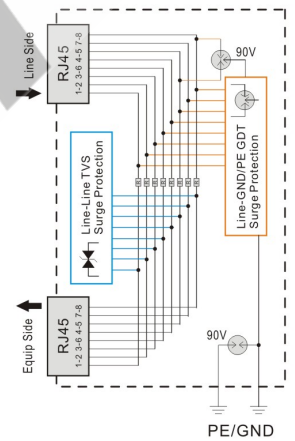
WTH-SG/RJ45 Series surge protective devices are applied to surge protection for data communication systems. WTH-SG/RJ45-KG is connected in series in CAT6 network cables, compatible with 10/100/1000/10000 (10G) Base-T Ethernet systems, protecting the equipment which are connected to the network (e.g. computers, routers, PoE devices, etc.) against damages by over-voltage surge.
(Standards compliance: IEC61643-21, UL497B, IEEE 802.3af PoE/802.3 at PoE Plus)

Technical Data

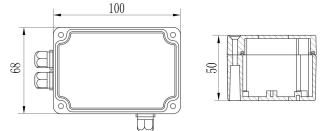
Model	WTH-SG/RJ45-KG
Ordering code	US121104
Nominal operating voltage (Un)	2.8V(Ethernet)/48V(PoE)
Max. continuous operating voltage (UC)	3V(Ethernet)/60V(PoE)
Nominal Discharge Current (In @8/20µs)	3kA (line to line)
Max. Discharge Current (Imax @8/20µs)	20kA (line to GND/PE)
Voltage protection level (Up @line-line)	50V @ 3kV (1.2/50)
Voltage protection level (Up @line-GND/PE)	700/800V @ 3kV (1.2/50)
Max Line Current	600mA (PoE)
Data Rate	100/1000Mbps
Bandwidth (3db) per pair	>250MHz
Insertion Loss	<0.5dB @100MHZ
Line-GND/PE Protected	8-line Protection
Pairs Protected	1-2, 3-6, 4-5, 7-8
Protective Element	GDT (line-GND/PE), TVS (line-line)
Voltage Breakdown Range, Vdc @ 100 V/s	2.4-188 (L-L) / 72-108(L-G)
Impulse Voltage Range, Vdc @ 100 V/µs	<1000
Line 5-8 Protected	YES
Response Time (tA)	<100ns (line-GND/PE), <1ns (line-line)
Connection mode	RJ45
Temperature Range	- 40° to 176°F (-40° to 80°C)
Relative Humidity	0% to 95% noncondensing
Maximum Operating Altitude	10,000 feet (3000m)
Protection Rating (IP Code)	IP 65
Surge Life at 0.5kA (8/20µs)	>2000 events
Housing Material	Thermoplastic, UL94 V-0
Net Weight Per Unit	0.36Lb (163g)
Product Dimension (W×H×D)	4.9"×3.5"×2.0" (122mm×89×50mm)



Connection Diagram



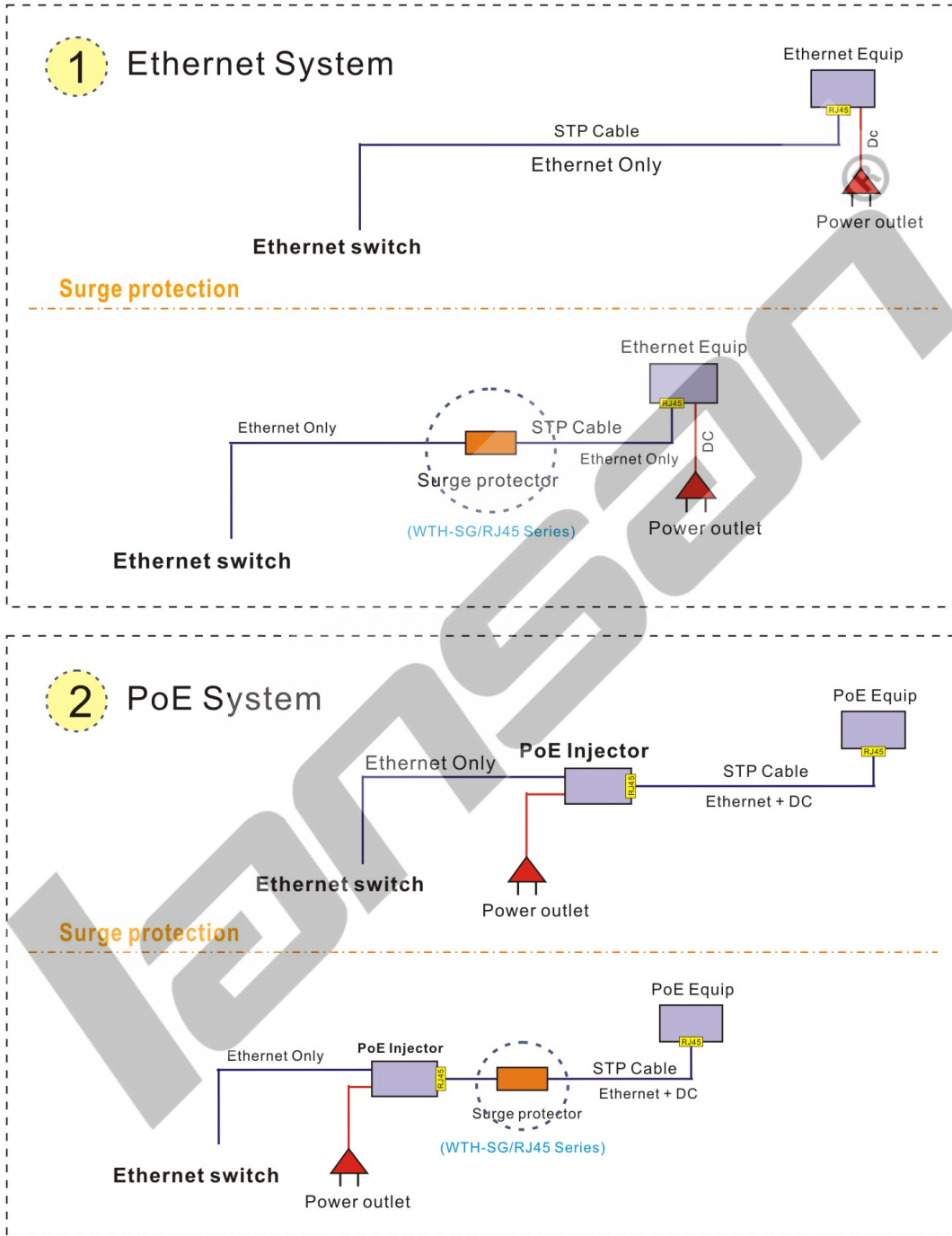
Dimensions



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Application



Outdoor Water-Proof

1. Waterproof enclosure design
2. Waterproof terminal threading, suitable for indoor or outdoor applications
3. UL certified f1 anti-acid rain and anti-ultraviolet enclosure material, ensuring the aging resistance of shell for outdoor use
4. Copper insert stud, damage free after repeatedly disassembly, more stable installation
5. Dual-grounding mode, boosting to 90V leakage voltage whenever grounding voltage is disturbed

Similar Products



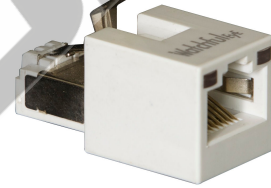
WTH-SG/RJ45
DIN-Rail Mounted



WTH-SG/RJ45-KE
Outdoor Wall Mounted



WTH-SG/RJ45-KG **WTH-SG/RJ45-S**
Outdoor Water-Proof Direct in Line Plug-in



WTH-SG/RJ45-KH-C/24
24 Port, 19-inch Rack Mounted