Surge Protective Device for Pipe

Paperless Datasheet

Going green and protecting environment is manufacturers' responsibility. Each WatchfulEyE product has a link of downloading data sheet on its enclosure:
http://datasheet.watchfuleyesolutions.com/US121112.html

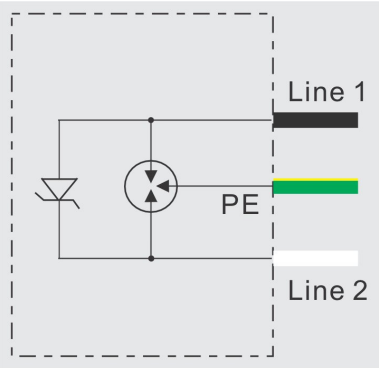
Ordering Code & Pipe Comparison

Model \ Suffix: #	1/2 NPT	3/4 NPT	G 1/2 BSP	G 3/4 BSP	M20 ISO
WTH-SG/PIPE-36 (2-#)	US121112A	US121112B	US121112C	US121112D	US121112E
WTH-SG/PIPE-36 (3-#)	US121113A	US121113B	US121113C	US121113D	US121113E
WTH-SG/PIPE-36 (4-#)	US121114A	US121114B	US121114C	US121114D	US121114E

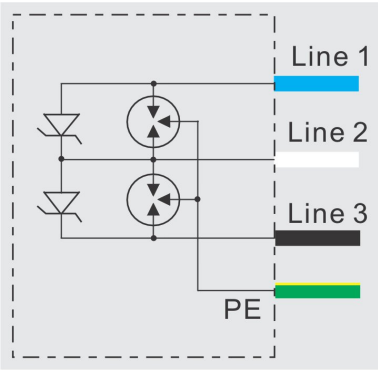
NPT: American National Standard Pipe Thread standards, often called National Pipe Thread
BSP: British Standard Pipe
M: ISO Thread (Metric) Suffix #: 1/2 NPT (1/2" NPT), 3/4 NPT (3/4" NPT)

Model & Ordering Code Series

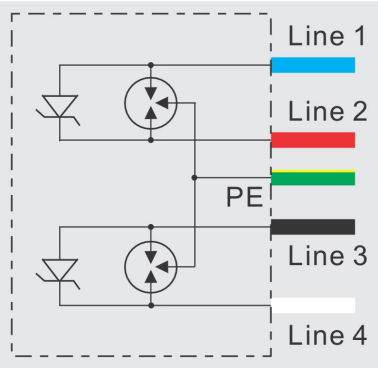
Model Series	Ordering Code Series	Surge Protection
WTH-SG/PIPE-36 (2-#)	US121112	2 Line
WTH-SG/PIPE-36 (3-#)	US121113	3 Line
WTH-SG/PIPE-36 (4-#)	US121114	4 Line



WTH-SG/PIPE-36 (2-#)



WTH-SG/PIPE-36 (3-#)



WTH-SG/PIPE-36 (4-#)

Surge Protective Device for Pipe

Description

Transmitter field instrumentation equipment is connected with peripheral lines through power lines and signal lines. It is extremely susceptible to damage from interference such as lightning in more complicated working environment.

WTH-SG/PIPE-36 series Transmitter Surge Protective Device is specially developed for field instrumentation equipment in hazardous areas, etc. which are used to protect equipment from induced lightning current, surge voltage, electrostatic interference, radiation interference, internal overvoltage and other transient interference damage.

WTH-SG/PIPE-36 series products are made of corrosion-resistant stainless steel and can be directly installed in hazardous areas on the field instrument. Fixed wires are connected to field instrument terminals like field cables.

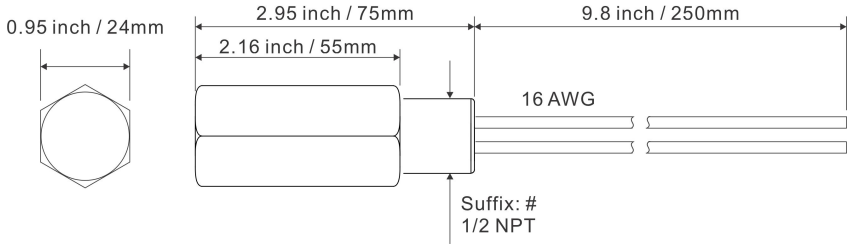
WTH-SG/PIPE-36 Threaded pipe installs the explosion-proof surge protective device in parallel on the 4-20mA control signal or twisted pair data signal (RS232, RS422, RS485) and other lines, protecting the system equipment (industrial monitoring equipment, automation equipment, etc.) against damages by over-voltage surge.
(Standards compliance: IEC61643-11, CE)

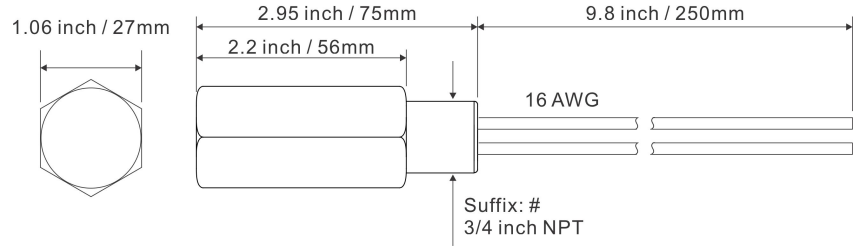
WTH–SG/PIPE Series Technical Data	
Nominal operating voltage (Un)	36VDC
Max. continuous operating voltage (UC)	58VDC
Nominal Discharge Current (In @8/20μs)	5kA
Voltage protection level (Up @line–line)	60V @ 3kV (1.2/50)
Voltage protection level (Up @Line–GND/PE)	600V @ 3kV (1.2/50)
Protective Element	GDT, TVS
Connection mode	Parallel connection
Response Time (tA)	<1ns
Protect mode	Difference mode & Common mode
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 66 (anti–explosion)
Surge Life at 0.5kA (8/20μs)	>2000 events
Installation Method	Pipe
Housing Material	304 stainless steel
Net Weight Per Unit	260g
Product Dimension	24mm x 24mm x 75mm

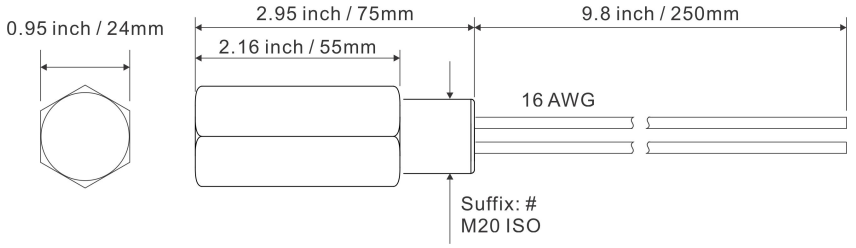
Surge Protective Device for Pipe

WTH-SG/PIPE Series Surge Protective Device

WTH-SG/PIPE Series Dimensions







FAQ & Help

1. What should I do if I can't find the paper manual in the product packaging?
Watchful Eye products is committed to going green with paperless data sheets. On the side of each product enclosure is an engraved link with URL for downloading paperless data sheet and QR code of the website. If you need the paper data sheet, you can open the link and print the data sheet by yourself.

2. Model WTH-SG/PIPE has no LED status indicator. What instruments can be used to test whether its surge protection function is normal or not?
Test with a Watchful Eye surge protector tester.
If a system failure occurs, first remove the surge protector and restore the system to the wiring status without the surge protector. If the system failure is solved, it shows the surge protector is faulty. Using Watchful Eye Surge Protective Tester can more easily test whether the WTH-SG/PIPE series is normal or not.

3. Can you list more applications of WTH-SG/PIPE series?
4-20mA industrial control system, 0-5V industrial monitoring system, RS485 system, industrial monitoring probe, video camera control PTZ, etc.

4. What are the advantages of the GDT+TVS type surge protection? It provides a two-step surge protection mode: the first-stage GDT protection, releasing strong surge intrusion and reduce the strength of the surge; it is followed up the second-stage TVS fine protection, achieving a lower residual voltage value.

5. Is there any requirement on the wiring order of control signal cable?
Can be interchangeable wired

6. Characteristics of wide voltage, rated working voltage (Un): What are the advantages of 36VAC and 58VDC?
If you don’t know what kind of industrial control voltage system the system is, it is commonly used in systems below 58VDC, such as: RS485, 4-20mA, 0-5V, etc., to avoid confusion about your selection.

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After-sale Services

Watchful Eye provides a 5-year quality warranty globally.

I have a question