



1251 & 1252 Series Hardwired AC Hybrid H-SPD INSTALLATION INSTRUCTIONS

ATTENTION!

- Installation must be performed only by a properly trained operator or an electrician.
- Applicable electrical installation rules must be followed.
- The unit must be used only as a surge protector and according to the conditions described in this document.
- The device must be selected in relation to a dedicated AC network (see Technical Data).
- If LED lights are OFF, the surge protector must be replaced.

Technical Data

Specification	Model											
	1251-120S-N1	1251-240S-N1	1251-208Y-N1	1251-120S-N2	1251-240S-N2	1251-208Y-N2	1252-120S-N1	1252-240S-N1	1252-208Y-N1	1252-120S-N2	1252-240S-N2	1252-208Y-N2
Single Phase	•			•			•			•		
Split Phase		•			•			•			•	
Wye			•			•			•			•
Type	1						2					
Max. Discharge Current by Mode (Imax)	50 kA											
Nom. Discharge Current by Mode (In)	20 kA											
MCOV L-N (Vac)	140											
MCOV L-L (Vac)	N/A	280	280	N/A	280	280	N/A	280	280	N/A	280	280

NOTES:

Model 1252 Series contains a filter.

N1: For the side nipple.

N2: For the nipple in the back.



Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

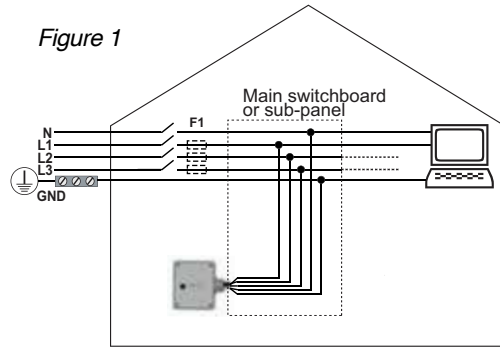
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

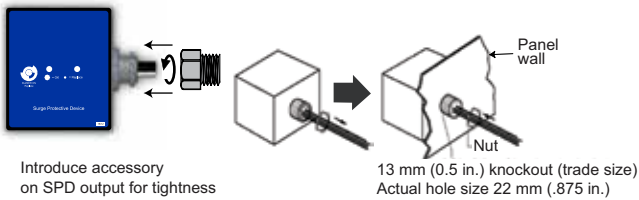
1251 & 1252 Series Hardwired AC Hybrid H-SPD INSTALLATION INSTRUCTIONS

Installation

Figure 1



Fusing installation not required but recommended for Type 1 SPD installation according to UL 1449. Mandatory for Type 2.



1. Disconnect breaker supplying all power to the equipment prior to SPD installation.
2. See Figure 1.
3. Confirm Model 125x Series device is rated for your system by comparing voltage measurements to the Line Voltage on the product label.
4. Install in accordance with the applicable electric code in your area.
5. Confirm that the electrical terminals used to attach this device are identified for these conductors.
6. Twist conductors 1/2 turn or more for every 12 inches of length.
7. Keep conductor length as short as possible with no sharp bends.
8. Do not loop or coil wires.
9. Ensure a high quality ground is in place.

Diagnostic Operation

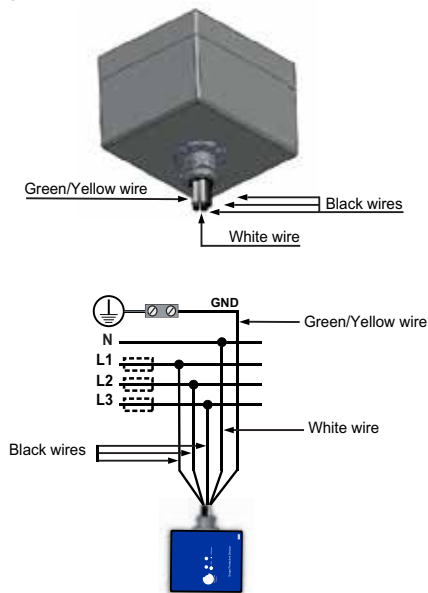
LED ON = Normal operation.

LED OFF (one or more) = Fault, check phase voltage and connections. If okay, replace unit.

AUDIBLE ALARM ON = Fault, check phase voltage and connections. If okay, replace unit.

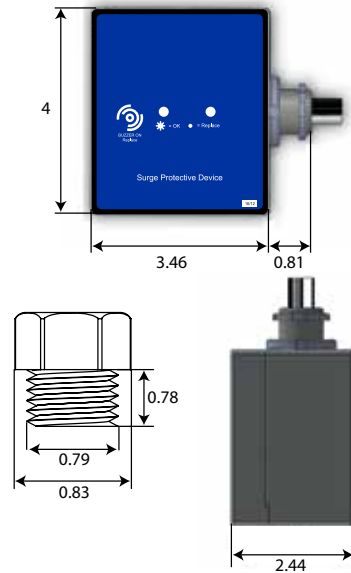
Wiring

Version N2



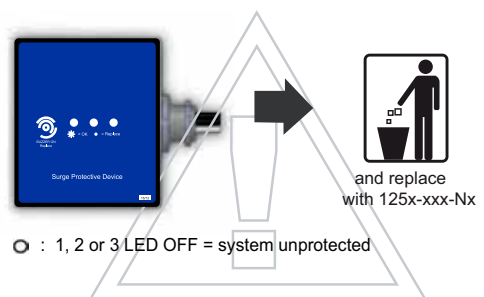
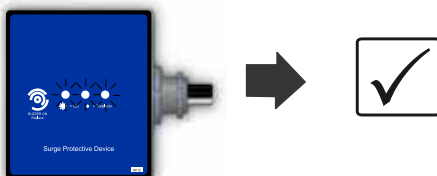
Dimensions (inches)

Version N1



Maintenance

☀️ : ALL LED ON = system fully protected



07/16

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.