

OONO®
CZH-LABS.com

**LED Lighting
Surge Protection Device Module
Model: F-1070 Series**



Features:

- CZH-LABS's F-1070 Series thermally protected surge protection device specially designed to be used in outdoor, commercial, and industrial LED lighting fixtures. It utilizes T-MOV thermally protected varistor technology which acts as a self-protector, helping prevent end-of-life issues related to varistors as well as issues related to sustaining over-voltage conditions. High line-to-earth/ground resistance.
- Single Phase AC120V Two (L-N) and Three (L-N L-G N-G) wires protection mode SPD options. Parallel and Series connected SPD Options.
- T-MOV Thermally Protected Varistor technology: The T-MOV varistors offer quick thermal response due to the close proximity of the integrated thermal element to the MOV body, avoiding the danger of MOV overheating or even burning.
- Waterproof rating: IP67. Flame retardant rating V1. Case material: PC (Polycarbonate). Seal material: Silicone rubber. External screw: 304 stainless-steel. Compact form factor.
- Applications: Outdoor and Commercial LED Lighting, Roadway lighting, Traffic lighting, Digital signage, Wall wash lighting, Parking garage lighting, Flood lighting, Tunnel lighting, Street lighting, Industrial high-bay and low-bay lighting.

Specifications:

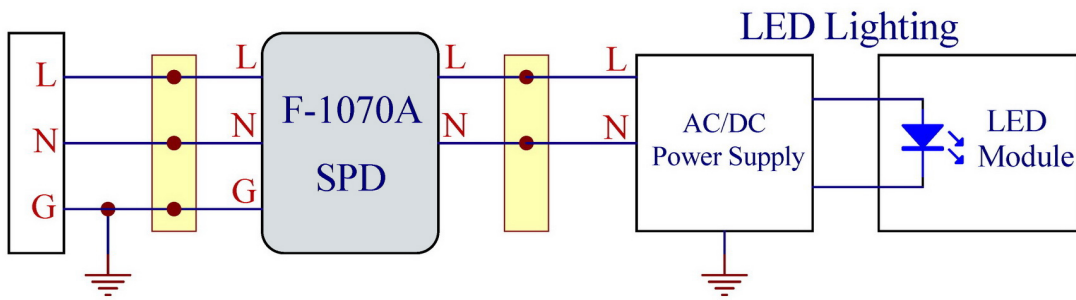
- Normal continuous operating voltage: Single phase 120VAC 50-60Hz
- Maximum continuous current:
- Maximum continuous operating voltage (MCOV): L-N 150VAC
- Voltage Protection Rating (VPR): 700V, L-N L-G N-G
- Nominal discharge current (In): 5k Amps (8/20 μ s)
- Maximum discharge current (Imax): 20k Amps (8/20 μ s)
- Wire length: 200mm / 8", UL AWM Style 1015, 16 AWG
- Operating temperature: -20 to 85C / -4 to 185F

Versions list:

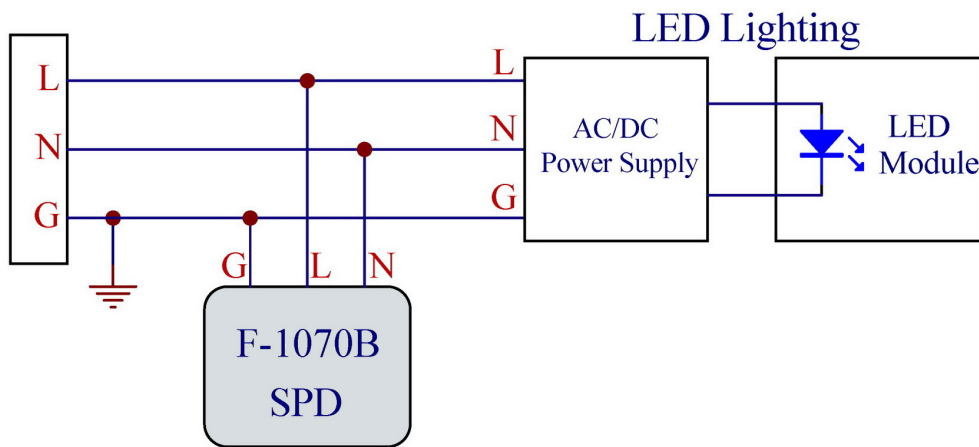
Model	Circuit	Connects	Operating Voltage	MCOV	Imax	In
F-1070A	L-N L-G N-G	Series	120VAC	150VAC	20 Amps	5k Amps
F-1070B	L-N L-G N-G	Parallel	120VAC	150VAC	20 Amps	5k Amps
F-1070C	L-N	Series	120VAC	150VAC	20 Amps	5k Amps
F-1070D	L-N	Parallel	120VAC	150VAC	20 Amps	5k Amps

Circuit Connects:

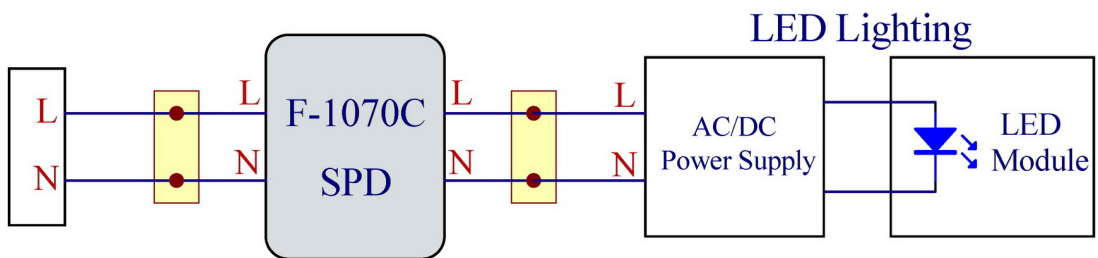
F-1070A



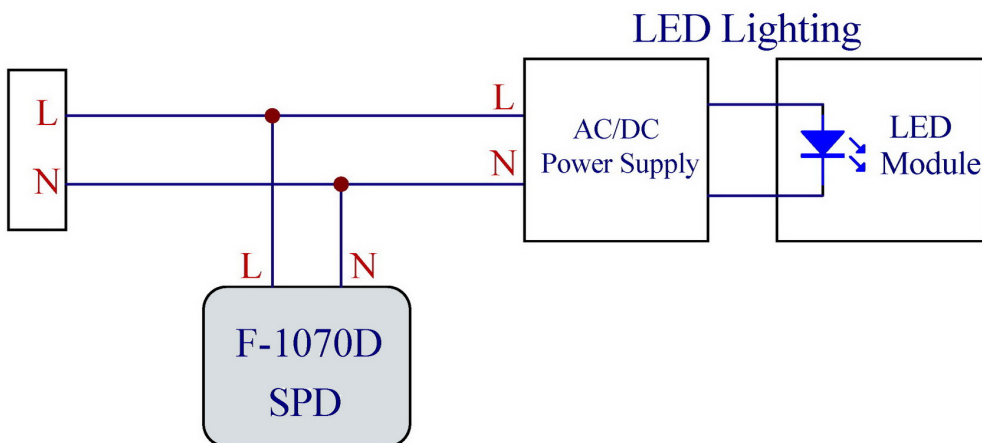
F-1070B



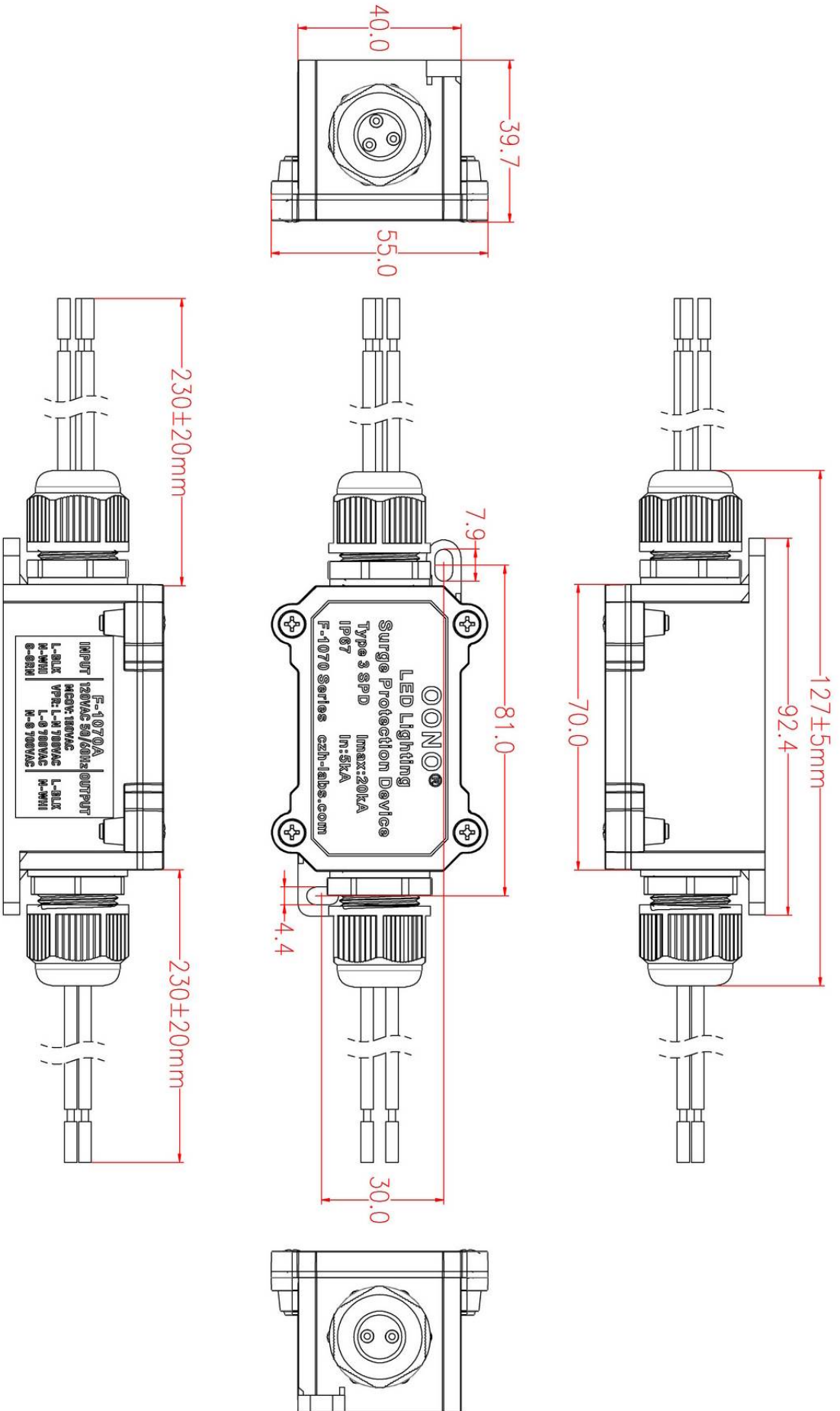
F-1070C



F-1070D



F-1070A Dimensions:

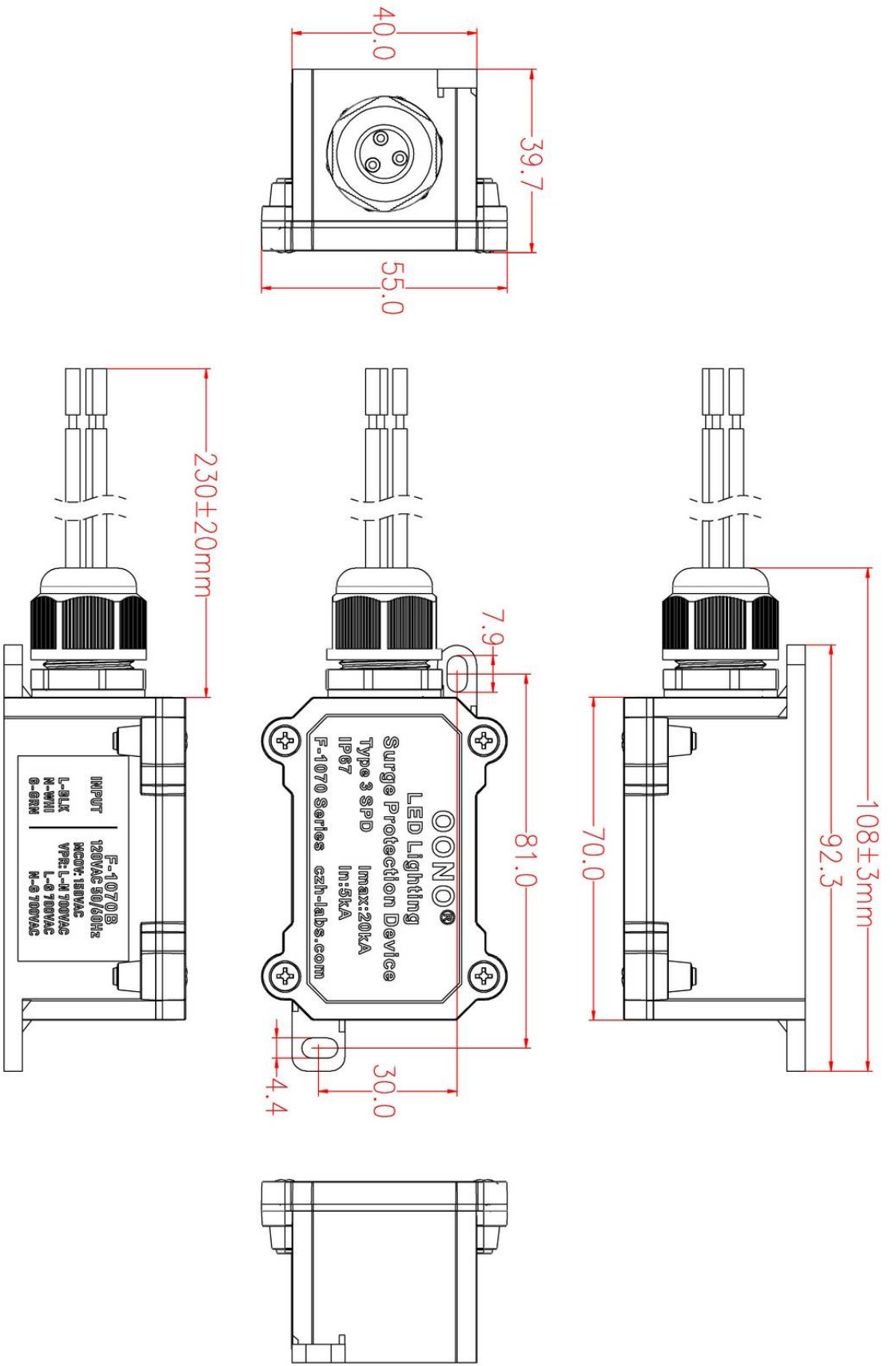


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MODEL NO: F-1070A SKU: MD-F1070A-1

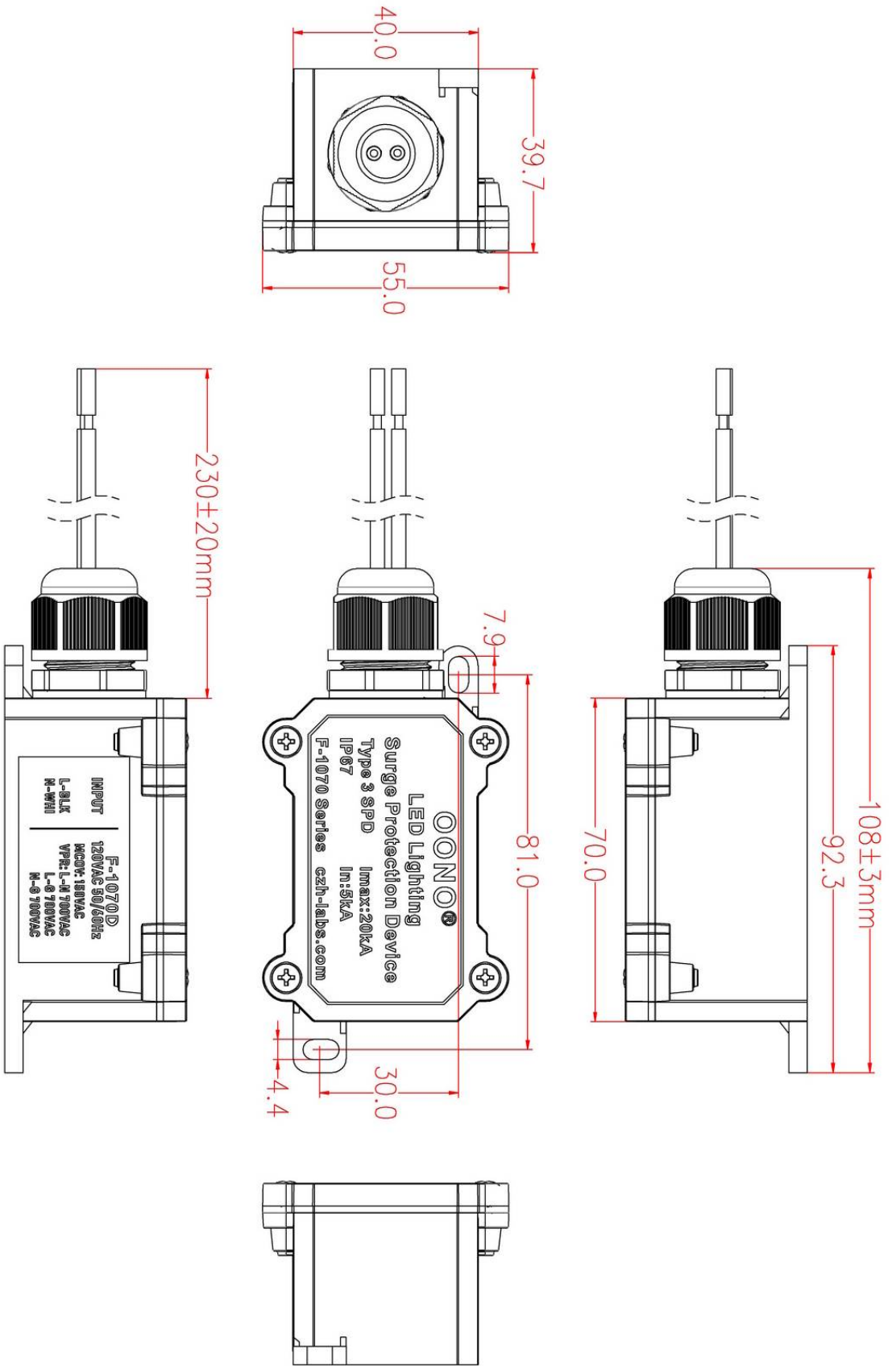
PROJECTION:  UNIT: mm

F-1070B Dimensions:



OONNO®		czh-labs.com	
MODEL NO:	F-1070B	SKU:	MD-F1070B-1
PROJECTION:		UNIT:	mm

F-1070D Dimensions



OONO®		czh-labs.com	
MODEL NO:	F-1070D	SKU:	MD-F1070D-1
PROJECTION:		UNIT:	mm

IMPORTANT

- THIS MODULE OPERATES ON A HAZARDOUS VOLTAGE !
- DISCONNECT AC POWER DURING INSTALLATION !
- Installation must be done according to local regulations and standards. If any doubt, consult a licensed technician.
- This module is not suited for portable applications.

DANGER !!!

- Do not open the housing in order to avoid the risk of electroshocks.
- This module operates on a dangerous AC voltage !
- All repairs should be executed by qualified technicians.

SAFETY INSTRUCTIONS !!!

- Do not attempt to disassemble the unit as it does not contain any parts that are to be serviced by the user. (Tampering voids warranty)
- Do not touch unused terminals when the module is connected to the AC power.
- Handle the module gently and carefully. Dropping it can damage the circuit board and case.
- Never exceed the protection limit values indicated in the specifications.
- As safety requirements vary, please check with your local authorities.
- Disconnect the module from the AC power before connecting new devices.
- Wipe the device with a dry and clean cloth. Do not use detergents or other liquids that may damage the housing.
- Keep the device away from children.
- Facilitate the operation of the device by familiarising yourself with its adjustments and indications.
- CZH-LABS and Eelectronics-Salon modules are not suitable for use or as part of life support systems, or systems that might create hazardous situations of kind.