Features

- Surge current rating = 15kA using industry standard 8/20us wave
- UL1449 Type 4
- EN 61643-11
- Comply with IEEE C62.41.2 Location Category C High
- High temperature, 85℃ maximum ambient temperature rating, flameproof plastic enclosure
- IP66
- Only suitable for Inventronics LED Drivers

c UL us E467129

Description

The PU-20KX10KTXX is designed to be used in conjunction with LED Drivers to provide an additional level of surge and transient protection.

Models

Input Voltage Range	Nominal Discharge Current In(8/20μs)	Imax	Up (Max Clamped Voltage Level)	Internal Gas Discharge Tube	Indicator	Rated Load Current	Model Number	Certification
90~305 Vac	10 kA	15 kA	1600 V	N	N	/	PU-20KS10KTTN	UL
90~305 Vac	10 kA	15 kA	2000 V	Y	Y	/	PU-20KS10KTVA	UL, CE, DEMKO
90~305 Vac	10 kA	15 kA	1600 V	N	Y	15 A	PU-20KD10KTSL	CE, DEMKO; DM with Single- Insulation Wire
90~305 Vac	10 kA	15 kA	1600 V	N	Y	15 A	PU-20KD10KTSL-FT01	CE, DEMKO; DM with Double-Insulation Wire
/	/	/	/	/	/	/	BRU-20KS10KT	/

Note: 1. Models with indicators glow green to show that protection is active.
2. The BRU-20KS10KT is a optional bracket which used to fix the surge protector to the housing and it can be ordered separately.

General Specifications

Parameter	Min.	Typ.	Max.	Notes
Rated Voltage	100 Vac		277 Vac	
Max. Continuous Operating Voltage (MCOV)	-	-	320 Vac	
Input Frequency	47 Hz	-	63 Hz	
Nominal Discharge Current In(8/20μs)	-	-	10 kA	
Number of Surges 15 kA 10 kA 3 kA 1 kA	 1 15 100 500	 - - - -	 - - - -	

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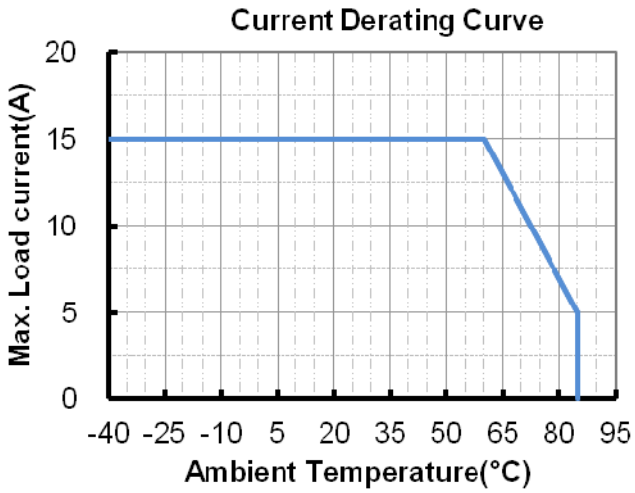
Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes
Operating Temperature	-40℃	-	+85℃	
Storage Temperature and humidity(≤24 hours)	-40℃	-	+85℃	Humidity: ≤ 75%RH
Recommended Storage Temperature and Humidity	-10℃	-	+40℃	Humidity: ≤ 75%RH

Safety & EMC Compliance

Safety Category	Standard
UL	UL 1449 : Transient Voltage Surge Suppressors
CE/ DEMKO	EN 61643-11: Surge protective devices connected to low-voltage power distribution systems - Requirements and testing methods
IEEE C62.41	Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits

Current Derating Curve (PU-20KD10KTSL/ PU20KD10KTSL-FT01)



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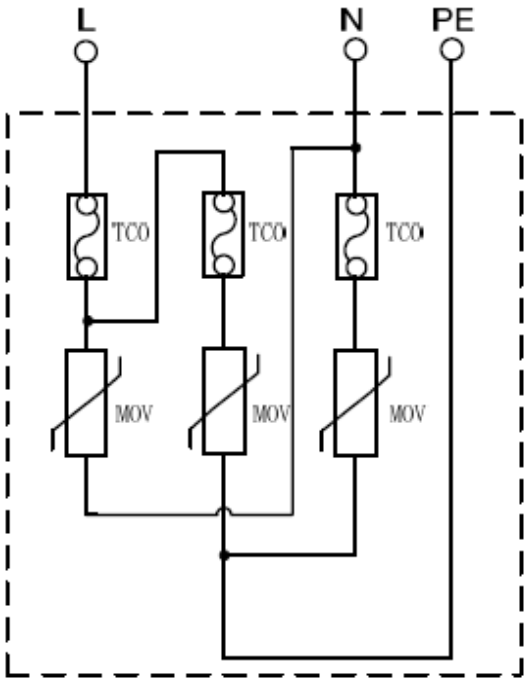
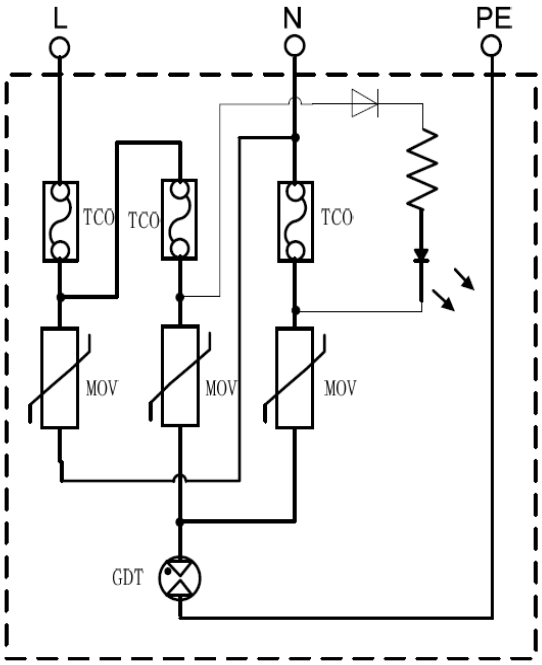
Schematic

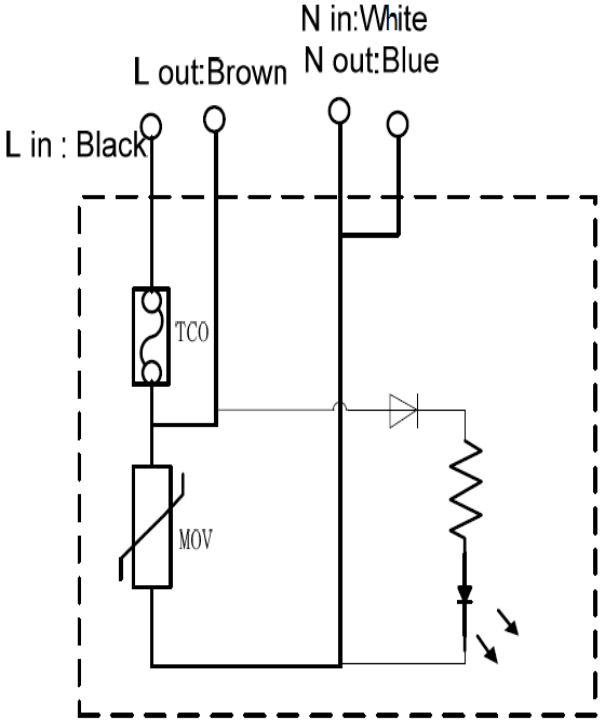
PU-20KS10KTTN



PU-20KS10KTVA



PU-20KD10KTSL / PU-20KD10KTSL-FT01



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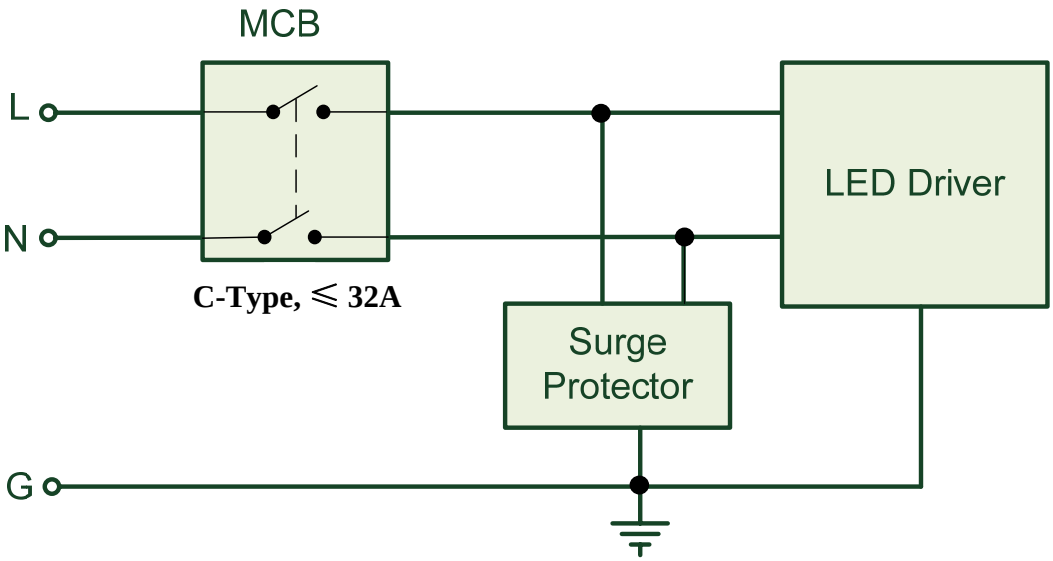
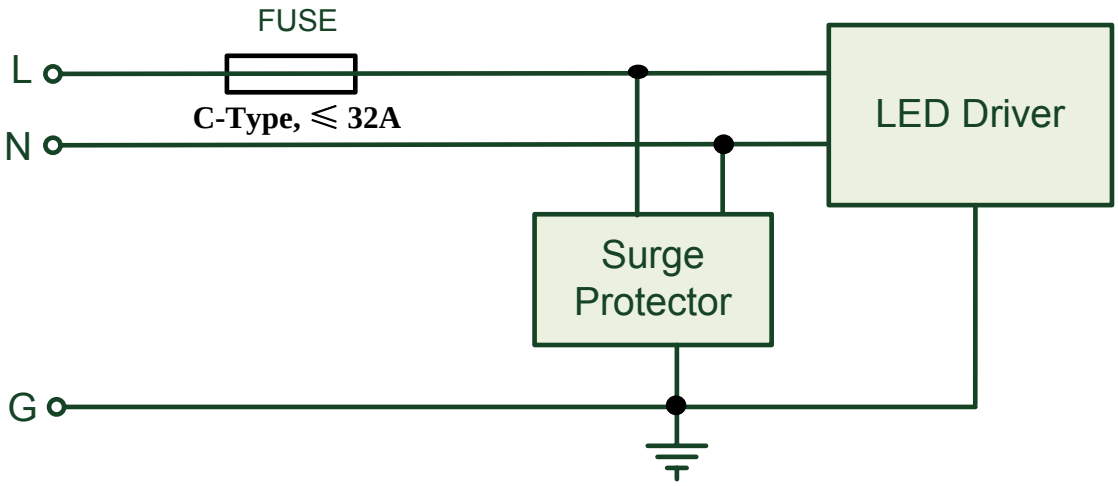
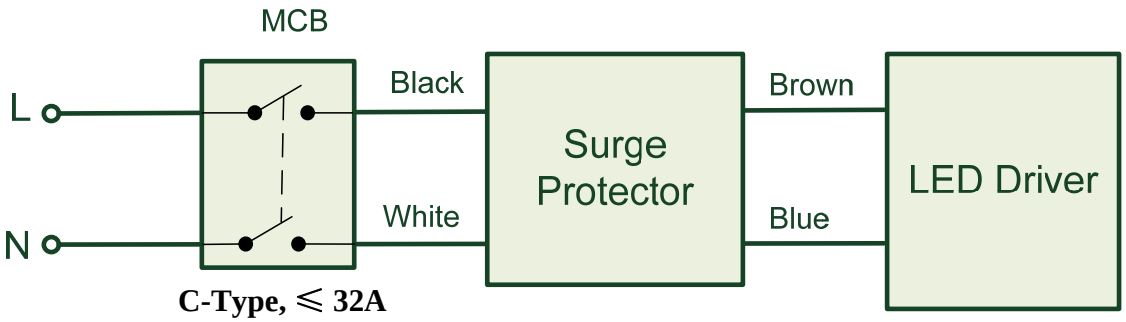
Wiring

PU-20KS10KTTN & PU-20KS10KTVA





PU-20KD10KTSL/ PU-20KD10KTSL-FT01



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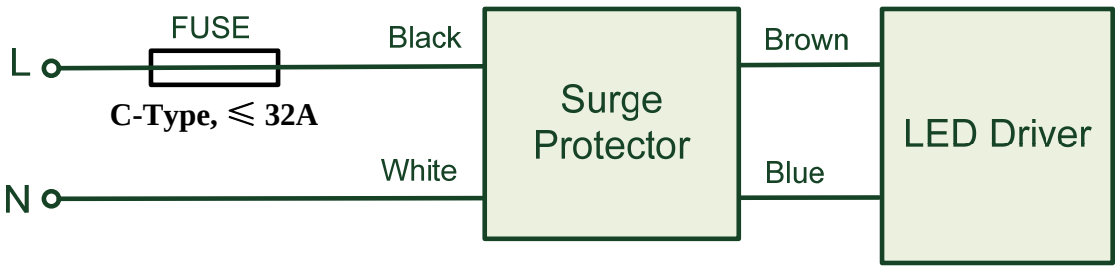
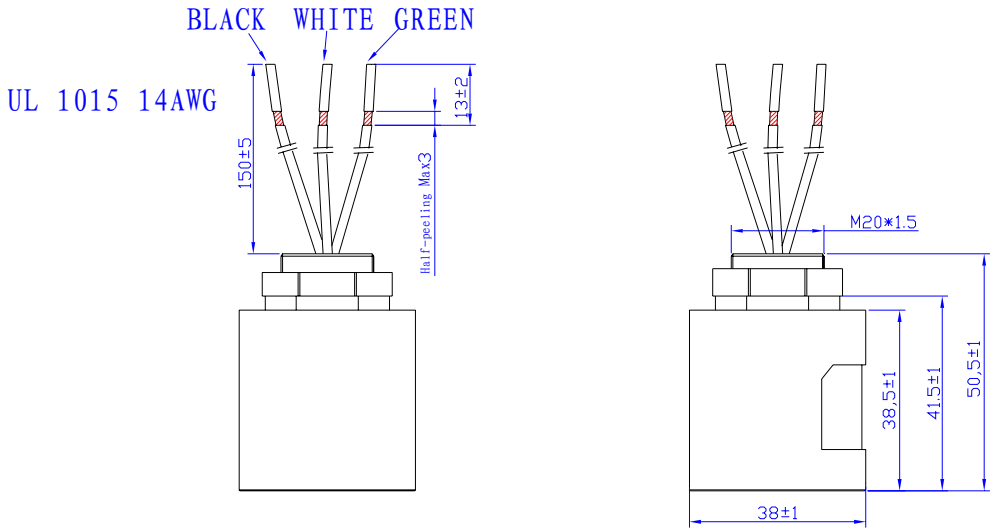
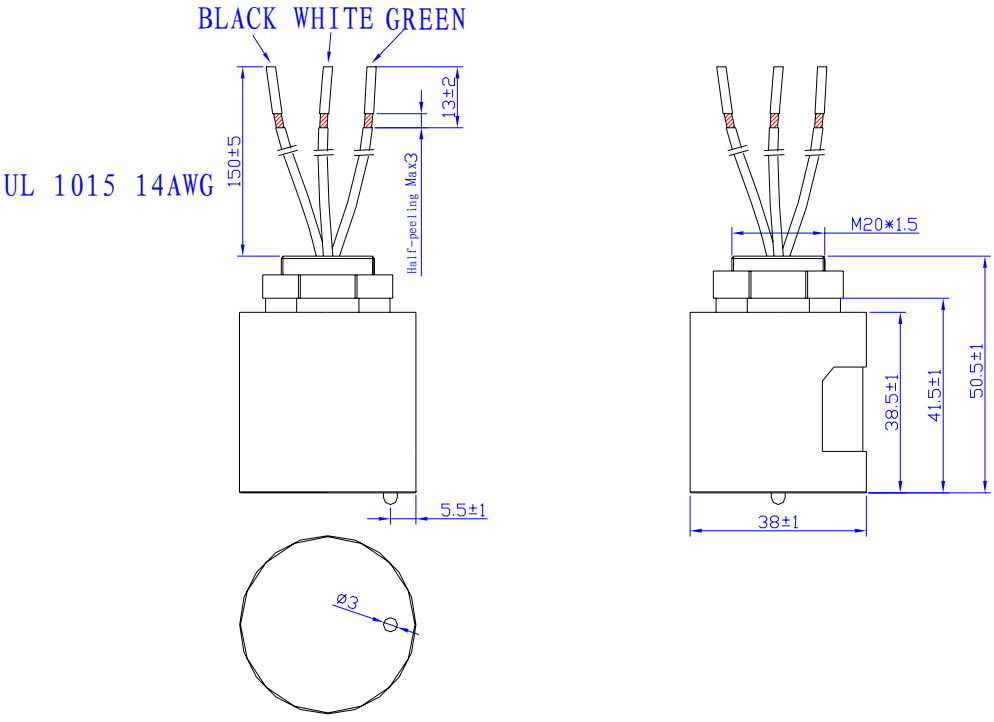


Mechanical Outline

PU-20KS10KTTN



PU-20KS10KTVA



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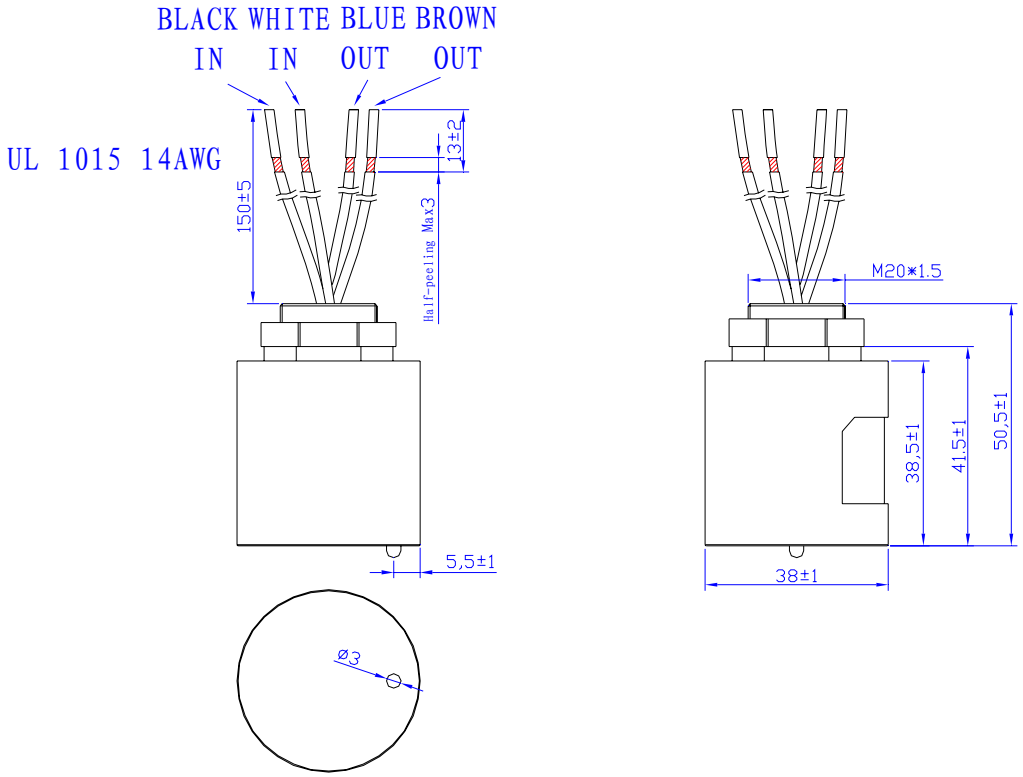
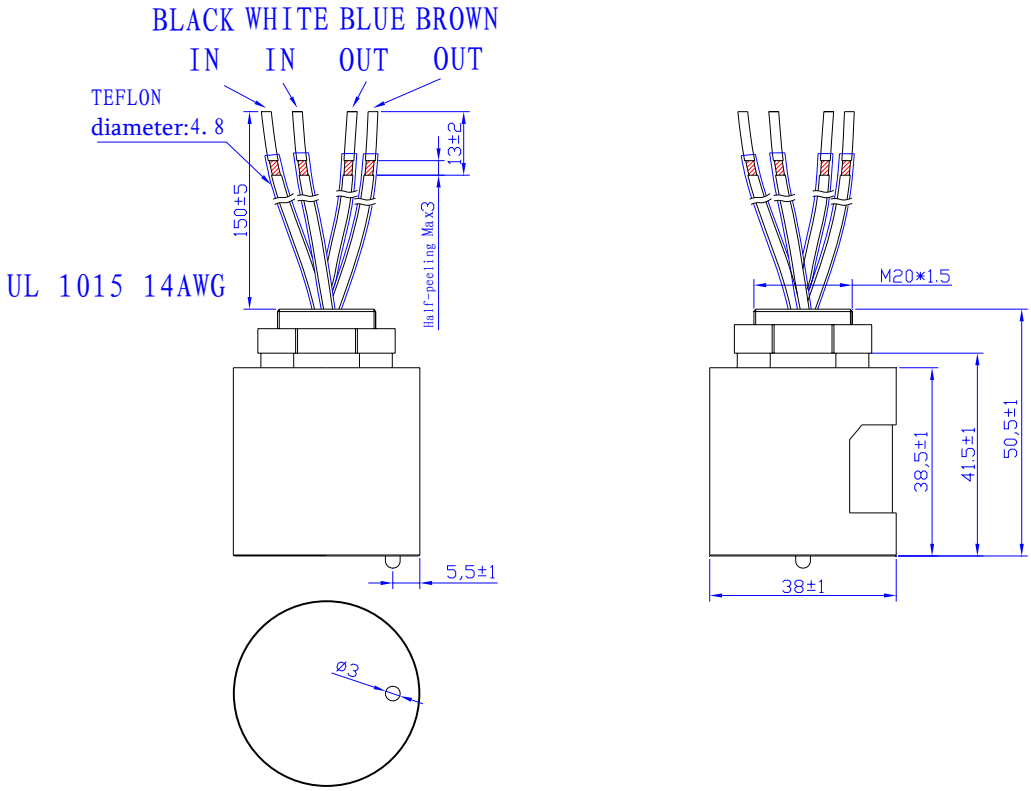
PU-20KD10KTSL



PU-20KD10KTSL-FT01



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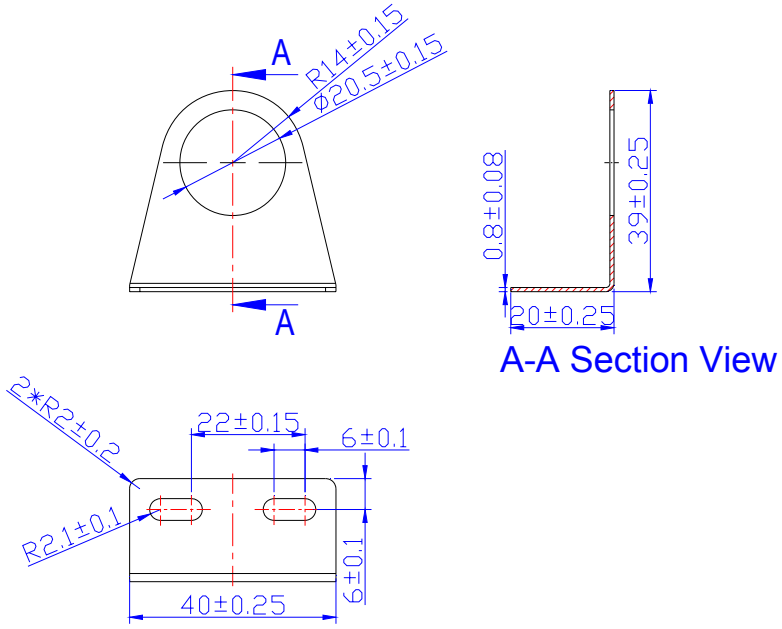
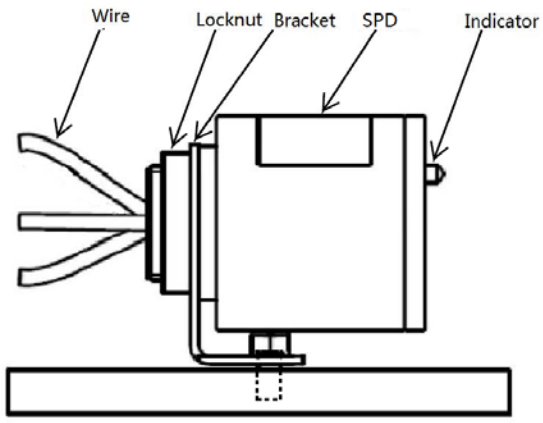
Optional Bracket:
BRU-20KS10KT

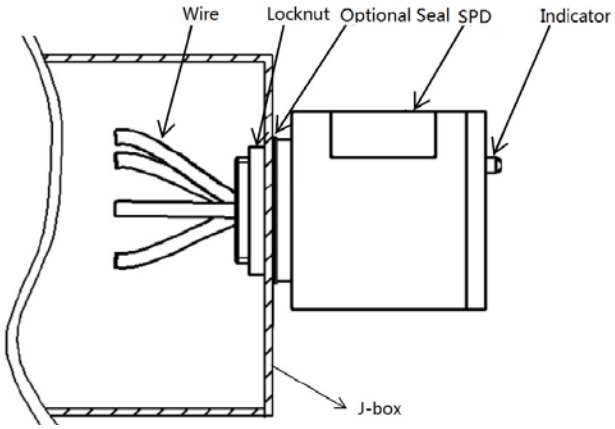


Note: This device is used to fix the surge protector to the housing and it can be ordered separately.

Installation



Bracket Installation



Knock-Out Installation

Revision History

Change Date	Rev.	Description of Change		
		Item	From	To
2014-04-25	A	Datasheet Release	/	/
2014-11-15	B	Updated the certificate status of CE/ DEMKO	NA	CE/ DEMKO

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