ASCO®

100 SERIES
Model 159 (Edco HVCP-48)
Video Control Power Protection

Surge Protective Device

Technical Documentation

The ***ASCO Model 159*** is a hybrid surge protection product featuring DC power, data and video protection in one package. Each separate circuit is capable of handling high-current impulses while tightly clamping transients and allowing critical power and data to be transmitted.

General Technical Specifications	
DC Power Protection (VS)	
Operating Voltage	48 VDC
Clamping Voltage	70 VDC
Operating Current	1 Amp
Peak Surge Current	10 kA
SPD Technology	GDT, SAD, Series Element
Connection Type	5.08mm Terminal Block Plug
High Speed Data Protection (SDIO)	
Clamping Voltage	15 VDC
Operating Current	0.15 A
Peak Surge Current	10 kA
SPD Technology	GDT, SAD, Series Element
Connection Type	5.08mm Terminal Block Plug
Video Protection	
Clamping Voltage	2 VDC
Peak Surge Current	10 kA
SPD Technology	GDT, SAD, Series Element
Connection Type	Female BNC Jack or 5.08mm Terminal Block Plug
Physical Data	
Ground Wire (in / mm)	12 AWG, 36.0" [914.4 mm] Long
Terminal Wire Range	28-12 AWG
Wiring Terminal Torque	4.5 LB in
Wiring Terminal Strip Length (in / mm)	0.28" - 0.31" [7.11 - 7.87 mm]
Dimensions (in / mm)	3.3" L x 3.3" W x 1.35" H [83.82 x 83.82 x 34.29 mm]
Material	High Impact Plastic
Weight (oz / kg)	12 oz [0.34 kg]
Mounting	Flange mounted, 3.75" mounting hold distance, (0.188" dia.) (2x) DIN-Rail mounting (Optional)
Operating Temperature	-40°C to +74°C
Operating Humidity	0% to 95% Non-condensing
Certifications	
Environmental	RoHS Compliant
Safety	UL 497B Listed, Tested to IEC 802.11
Warranty	5 Year

Key Specs

- **Voltage/Current:** Combination Unit (see specificatons)
- **Connection:** Hardwire/Terminal Block for Power & Data, Video uses Female BNC Jack
- **Mounting:** Flange

**See Ordering Information for model number selection*

Features

- Three separate hybrid circuits
- Balanced transition circuit
- Ultra low capacitance, low signal loss
- Rugged gas tube protection
- Optional DIN rail assembly (sold separately)
- 5 Year warranty

Certifications

- RoHS Compliant
- UL 497B Listed
- Tested to IEC 802.11

⚠ DANGER!

Only qualified personnel should install or service this system. Electrical safety pre-cautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

Seulement le personnel qualifié doit installer ou maintenir ce systéme. Des précautions de sécurité en électricité doivent être suivis lors de l'installation ou de la maintenance de cet equipement. Pour eviter tout risque de choc électrique, débranchez et verouiller toutes les sources d'alimentation de cet equipement avant de.

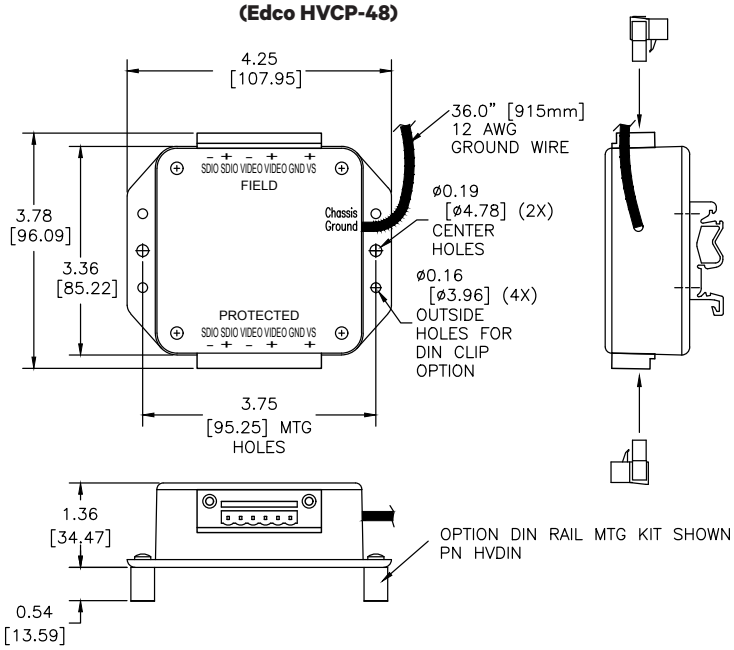
Installation Instructions

1. Mount device as close to protected equipment as possible using mounting flanges (hardware not supplied).
2. Strip all wires going to the field and protected terminal plugs on the device .28-.31 inches.
3. Connect power wire from field side to the field side terminal on device marked “VS+” and “GND” for the ground.
4. Connect data wiring from field to the field side of device marked “SDIO+” and “SDIO-”.
5. Connect video wire from field to the field side of device marked “Video +” and “Video-”.
6. Connect protected equipment wiring to all corresponding terminal on the protected side of the device.

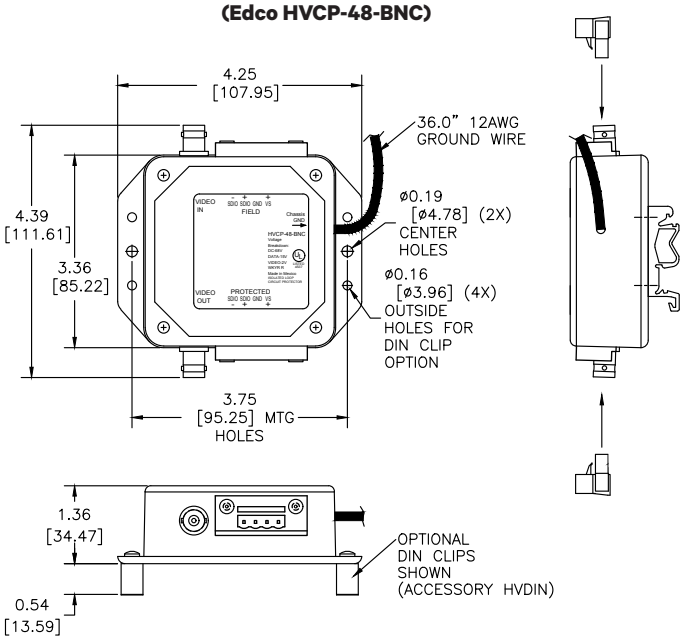
Optional DIN Mounting Kit, *(Sold Separately)*:
Part number: HVDIN (See ID-50139 for installation instructions)

Dimensions

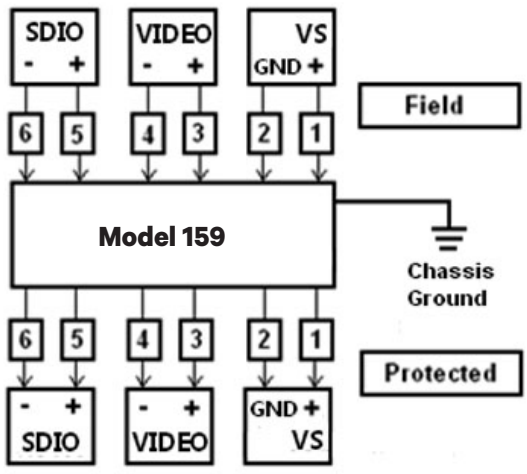
159D070S10KAN6N0 (Edco HVCP-48)



159D070S10KAN6N0 (Edco HVCP-48-BNC)



Wiring Diagram



Ordering Information

MODEL *Former Model Name*	APPLICATION
159D070S10KAN6N0 *Edco HVCP-48*	Analog Camera
159D070S10KAN6J0 *Edco HVCP-48-4X*	Analog Camera wtih NEMA 4X Enclosure
159D070S10KANBN0 *Edco HVCP-48-BNC*	BNC Video, Hardwire Power and Data
159D070S10KANBJ0 *Edco HVCP-48-BNC-4X*	BNC Video, Hardwire Power and Data with NEMA 4X Enclosure

ACCESSORY *Former Accessory Name*	
HVDIN *11852KIT*	DIN Mounting Kit

ASCO Power Technologies
14550 58th St. North, Clearwater, FL 33760

surge.ascopower.com
customercare@ascopower.com • 1-800-237-4567