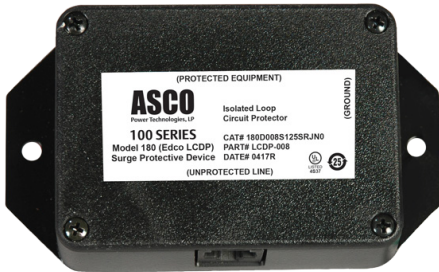


Surge Protective Device

Technical Documentation



The **ASCO Model 180** is designed to conveniently protect 8 wire, low voltage data circuits and employs two RJ-45 jacks for easy installation. Model 180 utilizes silicon avalanche (solid-state) suppression technology, and exhibits very low capacitance to accommodate high data rates. This unit supports high-speed data rates of over 100 Mbps.

Key Specs

- **Voltage:** 0-65 VDC
- **Current:** 1.5 Amp
- **Connection:** Input: female RJ-45
Output: female RJ-45
- **Mounting:** Flange

*See Ordering Information for model number selection

General Technical Specifications

Operating Voltage	5, 12, 24, 48, 65 VDC
Clamping Voltage	8, 15, 30, 60, 75 VDC
Operating Current	1.5 A
Peak Surge Current	[180D008] = 125 A (10 x 1000 μ s) [180D015] = 72 A (10 x 1000 μ s) [180D030] = 22 A (10 x 1000 μ s) [180D060] = 18 A (10 x 1000 μ s) [180D075] = 15 A (10 x 1000 μ s)
Frequency Range	0–100 MHz
Insertion Loss	< 0.1 dB at 50 MHz
SPD Technology	Silicon Avalanche Diode (SAD)
Connection Type	Female RJ-45 Jacks
Operating Temperature	-40°C to +85°C
Dimensions (in / mm)	1.0" H x 2.5" W x 4.25" L [25.4 x 63.5 x 108 mm]
Weight (oz / kg)	3 oz [0.09 kg]
Certifications	UL 497B (*except 180D075S015SRJN0)
Warranty	5 years

Features

- < 1 nanosecond response time
- Line-to-line protection
- Low capacitance
- RJ-45/4 pair protection (8 wire)
- Silicon avalanche design
- Line to ground protection
- 5 year warranty

Certifications

- UL 497B
(except 180D075S015SRJN0)

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 système. Des précautions de sécurité en électricité doivent être suivies lors de l'installation ou de la maintenance de cet équipement. Pour éviter tout risque de choc électrique, débranchez et verrouillez toutes les sources d'alimentation de cet équipement avant de.

Installation Instructions

The user equipment plugs into Model 180's equipment (protected) side, and Model 180's line (unprotected) side is connected to the incoming line. All 8 conductors are protected. The green ground wire must be bonded to the protected equipment power ground (third wire, green wire safety ground). Do not add length to the ground wire, for it must be kept as short as possible.

Ordering Information

MODEL <i>Former Model Name</i>	OPERATING VOLTAGE	CLAMPING VOLTAGE
180D008S125SRJNO <i>Edco LCDP-008</i>	5 VDC	8 VDC
180D015S072SRJNO <i>Edco LCDP-015</i>	12 VDC	15 VDC
180D030S022SRJNO <i>Edco LCDP-030</i>	24 VDC	30 VDC
180D060S018SRJNO <i>Edco LCDP-060</i>	48 VDC	60 VDC
180D075S015SRJNO <i>Edco LCDP-POE</i>	65 VDC	*75 VDC

*Not UL Listed