



# HyperLink Brand Remote Electrical Tilt (RET)/AISG Lightning/ Surge Protector for Indoor and Outdoor Applications

## Data Surge Protectors Technical Data Sheet

**HGLN-AISG1**

### Features

- 2 x 8-Pin connectors
- 3-Stage surge protection for EIA-485 signals including ground reference line
- Protects each pin with gas discharge tubes
- Waterproof housing

### Applications

- Remote Electrical Tilt (RET) antenna systems
- Provide surge protection for indoor control units and outdoor antennas

### Description

The HGLN-AISG1 high performance 3-stage lightning/surge protector provides superior protection from transients and surges for indoor and outdoor Remote Electrical Tilt (RET) equipment utilizing multi-wire control cables. The protector is compatible with AISG 5, 6 and 8-conductor control lines and provides individual protection of the Power and RS485 lines within the control cable.

The design utilizes gas discharge tubes on each pin for superior power handling capability. In addition, the three EIA-485 control lines utilize a three-stage design for protection of sensitive semiconductors used in the interface. The 3-stage design can handle higher-level transients than a protector that uses only diodes. The HGLN-AISG1 arrester provides protection for both EIA-485 control line implementations using two or three wires. EIA485+, EIA485- and EIA485gnd.

#### Failsafe Feature

The HGLN-AISG1 is designed to convert into a failsafe mode in the rare case of a catastrophic surge or lightning event. For this mode, the resistors in the second stage will fuse and portions of the diode array will short to ground. This effectively disconnects the line from sensitive equipment thus limiting damage. The units are factory repairable. For more complete surge protection of data lines, the use of two units is recommended, one at each end of the line.

#### AISG Compatible

The HGLN-AISG1 is fully compatible with AISG control lines and connectors. Two 8-pin (1-male and 1-female) connectors are provided. A ground terminal is provided directly on the protector providing superior grounding.

For additional information and complete specifications, see data sheet below.

### Electrical Specifications

Surge Protector Type

Three Stage ( )

Description	Minimum	Typical	Maximum	Units
Voltage Protection Level			7.5	Vp
Gas Tube Voltage		90		Volts

### Mechanical Specifications

#### Size

Length

4.6 in [116.84 mm]

Width/Diameter

2.6 in [66.04 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [HyperLink Brand Remote Electrical Tilt \(RET\)/AISG Lightning/Surge Protector for Indoor and Outdoor Applications HGLN-AISG1](#)



## HyperLink Brand Remote Electrical Tilt (RET)/AISG Lightning/ Surge Protector for Indoor and Outdoor Applications

### Data Surge Protectors Technical Data Sheet

**HGLN-AISG1**

Height	1.7 in [43.18 mm]
Weight	0.65 lbs [294.84 g]
Housing Material and Plating	Aluminum

#### Configuration

Connector	8-Pin DIN
-----------	-----------

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +80 deg C
-----------------	------------------

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Our portfolio includes cable assemblies, connectors, adapters and custom products, as well as their wireless product line which includes antennas, RF amplifiers, coaxial lightning and surge protectors, and NEMA rated enclosures.

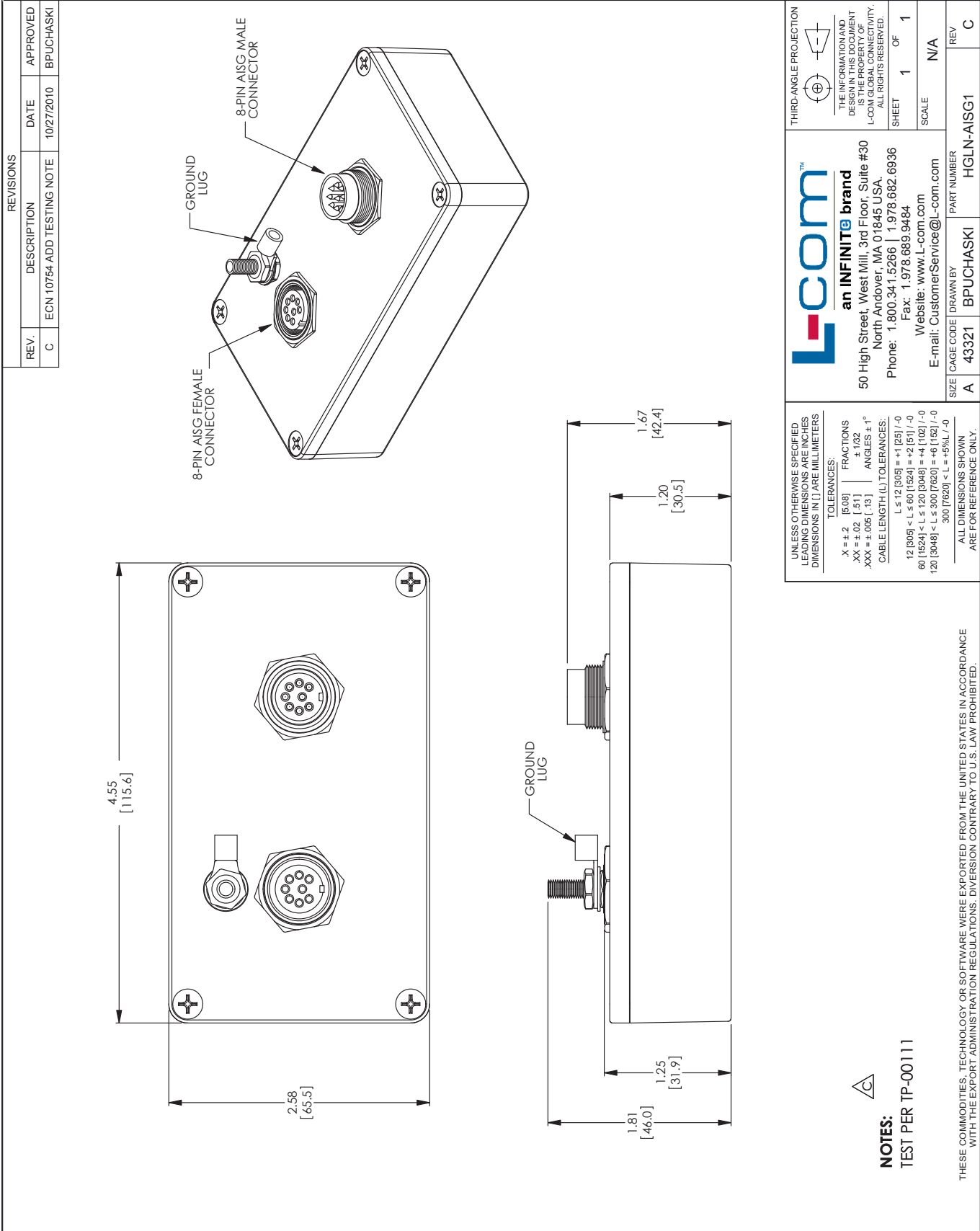
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [HyperLink Brand Remote Electrical Tilt \(RET\)/AISG Lightning/Surge Protector for Indoor and Outdoor Applications HGLN-AISG1](#)

URL: <https://www.l-com.com/surge-protector-remote-electrical-tilt-ret-aisg-lightning-surge-protector-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume any liability arising out of the use of any part or documentation.

# HGLN-AISG1 CAD Drawing

## HyperLink Brand Remote Electrical Tilt (RET)/AISG Lighting/ Surge Protector for Indoor and Outdoor Applications



**L-com**<sup>TM</sup>  
an **INFINITE** brand

50 High Street, West Mill, 3rd Floor, Suite #30  
North Andover, MA 01845 USA.  
Phone: 1.800.341.5266 | 1.978.682.6936  
Fax: 1.978.689.9484  
Website: www.L-com.com  
E-mail: CustomerService@L-com.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

---

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	
A	43321	BPUCHASKI	HGLN-AISG1	REV C

---

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5.08]    FRACTIONS ± 1/32  
 XX = ±.02 [ .51]    ANGLES ± 1°  
 XXX = ±.005 [ .13]

CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.