

**INSTALLATION INSTRUCTIONS-ULC APPROVED**

**MODEL AST-14 SYNCHRONIZABLE HAZARDOUS LOCATION  
STROBE WARNING LIGHT**

**APPLIED STROBE TECHNOLOGY CO. LTD.**

**8345 Stanley Avenue, Niagara Falls, On L2G 0C8 905-374-3077 FAX 905-374-6114**

**E-mail: [support@appliedstrobe.com](mailto:support@appliedstrobe.com)**

**Ast-14-Sync Ver. No.1  
Feb 2012**

## **1. INTRODUCTION**

The Model Ast-14 -Sync is a Pendant Mount Hazardous Area Strobe Warning Light which is CSA certified for both Canada and the United States for Class I Div.2 Environments and is also Type 3 and or 4x approved.

The Ast-14 -Sync contains a synchronization feature and is ULC listed for Visual Signal Appliances, Fire Alarm for Use in Hazardous Locations. The light is only compatible with the Siemens C-DSC and the Siemens PAD-3NAC Expander sync modules. A maximum of three lights may be connected to any one sync module at any time. The input voltage range is 21-30VDC with an rms operating current of .4-.8 A and an inrush current of 1.3A peak. The Ast-14 -Sync is only available with a clear lens.

The operating temperature is -55 C to + 85 C with a candela rating of 3 cd.

## **2. INSTALLATION**

### **MOUNTING**

The Ast-14 -Sync strobe is designed for mounting to ¾” conduit and may be mounted in any position. Prior to mounting the strobe, ensure that the threads on both the pipe and strobe fixture are clean. Thread the strobe onto the ¾” conduit and tighten the ¼”-20 set screw to secure it to the pipe.

### **ELECTRICAL CONNECTIONS**

The Ast-14 Sync ULC approved strobe contains four leads for electrical supervision , two red and two black. Connect one red(+) lead to the positive side of the sync module output and the other red(+) lead to the outgoing power source to the next device. Connect one black (-) lead to the negative side of the sync module output and the other black(-) lead to the negative side of the outgoing power source to the next device. Refer to the installation instructions of the appropriate sync module for further information; Siemens C-DSC see instruction #315-545222-10, Siemens PAD-3NAC Expander see instruction #315-099082-9.

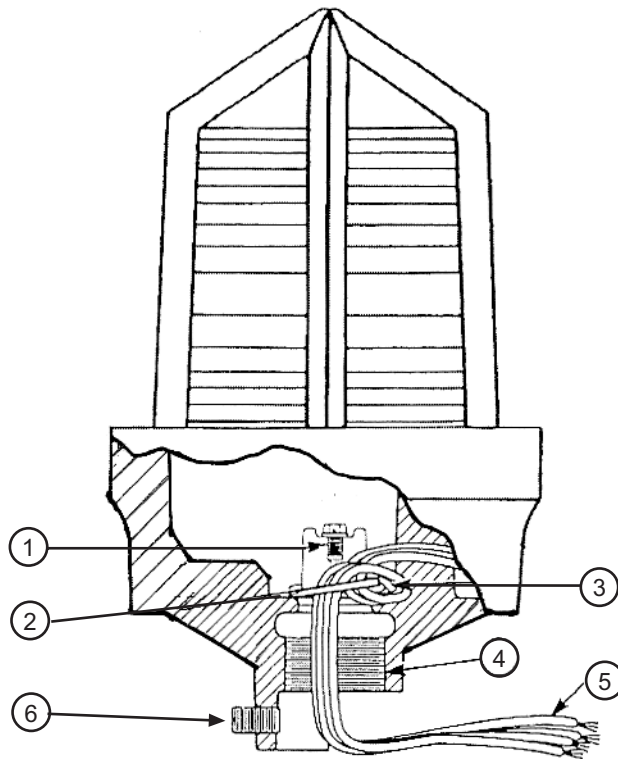
There is a grounding screw in the base of the fixture for connection to an earth ground if needed.

**Caution:** This is a four wire device. All of the wires must be terminated. Failure to do so can result in damage to the device or a potential for a fire hazard or a shock.

**Caution:** FACTORY FINISH-DO NOT CHANGE.

**Note:** Installation of the strobe in Canada shall be in accordance with:

- i) CSA C22.1, Canadian Electrical Code, Part 1
- ii) CAN/ULC-S524, standard for Installation of Fire Alarm Systems
- iii) Local Authority Having Jurisdiction

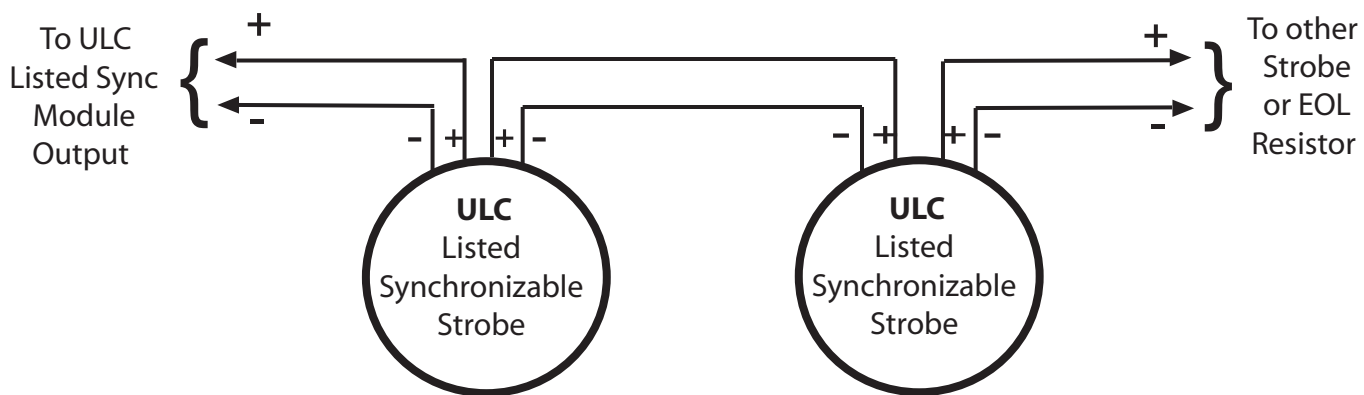


- 1 Ground screw
- 2 Strain relief disk
- 3 Wrap wires once around strain relief
- 4 3/4 14 N.P.T
- 5 Power wires: 2 Black (-) and 2 Red (+)
- 6 1/4 - 20 Set screw

## AST-14 Typical Light Output per CAN/ULC-S526

<i>Vertical Dispersion, Ceilings to Walls and Floor</i>							
<i>X-Plane Dispersion</i>				<i>Y-Plane Dispersion</i>			
X-Plane Angle ( $\pm^\circ$ )	% of Rated Candela	Actual Candela Readings (cd)		Y-Plane Angle ( $\pm^\circ$ )	% of Rated Candela	Actual Candela Readings (cd)	
		Expected	Typical			Expected	Typical
0	100	3	7	0	100	3	6
5	90	1.8	11	5	90	1.8	5
10	90	1.8	27	10	90	1.8	24
15	90	1.8	40	15	90	1.8	35
20	90	1.8	48	20	90	1.8	37
25	90	1.8	45	25	90	1.8	39
30	75	1.5	33	30	75	1.5	37
35	75	1.5	24	35	75	1.5	22
40	75	1.5	14	40	75	1.5	10
45	75	1.5	8	45	75	1.5	8
50	55	1.1	8	50	55	1.1	7
55	45	0.9	9	55	45	0.9	7
60	40	0.8	10	60	40	0.8	9
65	35	0.7	12	65	35	0.7	11
70	35	0.7	20	70	35	0.7	13
75	30	0.6	50	75	30	0.6	33
80	30	0.6	79	80	30	0.6	76
85	25	0.5	91	85	25	0.5	96
90	25	0.5	99	90	25	0.5	104

### Synchronizable Strobe Wiring Diagram



### **NOTES**

1. Leads 16 AWG , minimum 152 mm long
2. For electrical supervision use in and out leads as shown
3. A maximum of three strobes may be connected to any one sync module at any time