

INSTALLATION INSTRUCTIONS-ULC APPROVED

MODEL AST-4 EXPLOSION-PROOF STROBE WARNING LIGHT

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**Ast-4 Ver. No.2
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1. INTRODUCTION

The Model Ast-4 is An Explosion-Proof Strobe Warning Light which is CSA certified for both Canada and the United States for Class I Div.1 Environments and is Encl. 3 rated. The Ast-4 is also ULC listed for Visual Signal Appliances, Fire Alarm for Use in Hazardous Locations. The unit is available with a 15-30VDC input voltage range and has an rms operating current of .4-.8 A with an inrush current of 1.3A peak. The Ast-4 ULC approved strobe is only available with a clear lens.

The operating temperature is -50 C to + 85 C with a candela rating of 10 cd.

2. INSTALLATION

MOUNTING

The Ast-4 strobe can be mounted to a 3/4" conduit(Pendant Mount), wall mount, or can be ceiling mounted and must be installed with the globe pointing down. For Pendant Mount ,prior to mounting the strobe , ensure that the threads on both the conduit and the pendant mount bracket are clean. Thread the pendant mount onto the conduit until tight and secure with the locking set screw. Next thread the strobe fixture onto the mount until tight and secure the locking set screw.

Note: Please refer to Ast-4 catalogue sheet for information on other types of mounting brackets.

ELECTRICAL CONNECTIONS

The Ast-4 ULC approved strobe contains four leads for electrical supervision , two red and two black. Connect one red(+) lead to the positive side of the incoming power supply and the other red(+) lead to the outgoing power source. Connect one black (-) lead to the negative side of the incoming power supply and the other black(-) lead to the negative side of the outgoing power source. 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:

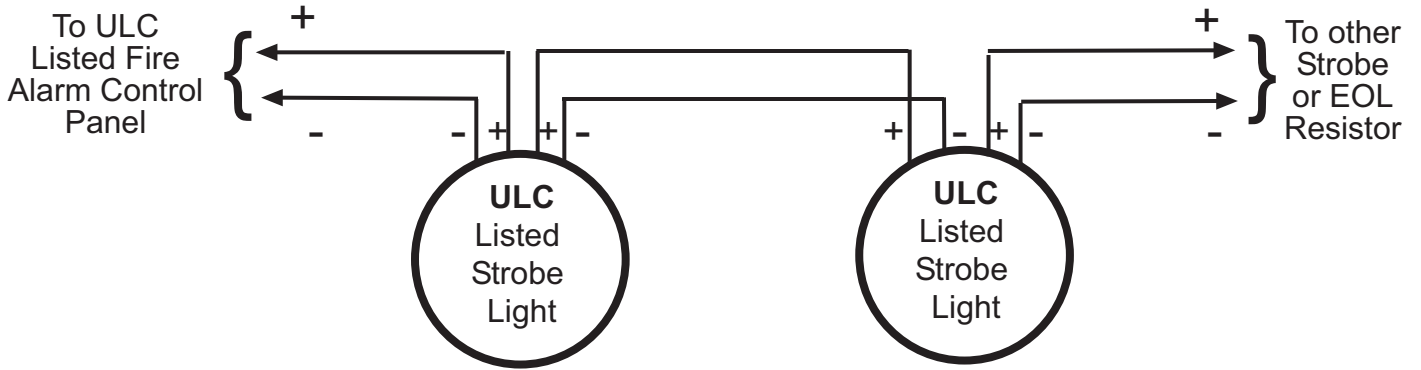
- i) CSA C22.1, Canadian Electrical Code, Part 1
- ii) CAN/ULC-S524, standard for Installation of Fire Alarm Systems
- iii) Local Authority Having Jurisdiction

AST-4 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 (±°)	% of Rated Candela	Actual Candela Readings (cd)		Y-Plane Angle (±°)	% of Rated Candela	Actual Candela Readings (cd)	
		Expected	Typical			Expected	Typical
0	100	10	186	0	100	10	151
5	90	9	183	5	90	9	68
10	90	9	69	10	90	9	23
15	90	9	29	15	90	9	20
20	90	9	21	20	90	9	23
25	90	9	20	25	90	9	23
30	75	7.5	17	30	75	7.5	20
35	75	7.5	16	35	75	7.5	13
40	75	7.5	15	40	75	7.5	12
45	75	7.5	15	45	75	7.5	12
50	55	5.5	17	50	55	5.5	19
55	45	4.5	25	55	45	4.5	24
60	40	4	32	60	40	4	36
65	35	3.5	38	65	35	3.5	52
70	35	3.5	45	70	35	3.5	61
75	30	3	53	75	30	3	78
80	30	3	58	80	30	3	87
85	25	2.5	64	85	25	2.5	97
90	25	2.5	84	90	25	2.5	110

Note: With Ast-4 “-CG” cast guard : 1.) At 0 °(on axis) guard reduces light output approx.140 cd. 2.) At 45 ° x&y plane (lowest light output), “critical angle”), guard reduces light output approx. 3 cd.

Strobe Wiring Diagram



NOTES

1. Leads 16 AWG , minimum 152 mm long
2. For electrical supervision use in and out leads as shown