

# TVA Obstruction, Approach and Boundary Luminaires

## CSA Certification Only

For use with Threaded Rigid Metal Conduit and IMC.

Class 1, Division 2 versions available

LIGHTING: ENCLOSED AND GASKETED – VISUAL SIGNAL

### Applications

- Transport Canada approved TVA490 series low intensity obstruction, approach or boundary light.
- TVA490 series obstruction lights are suitable for use on communication towers or other tall structures and buildings.

### Features

- TVA obstruction lights are available with one or two lamps.
- Models are equipped with rainports in the globe holder which keeps the wiring chamber dry.
- TVA obstruction lights are rugged cast aluminum construction.
- Two lamp fixtures are furnished with pre-wired sockets.
- Utilizes Type A-21, 116 W clear traffic signal lamp.
- A corrosion resistant finish protects TVA fixtures. TVA490 obstruction lights are approved for use by Transport Canada.
- Engineered for easy and safe maintenance, TVA490 fixtures are serviced without tools:
  - (1) The globe holder is secured with a captive thumb screw
  - (2) a one-eighth turn twist removes the globe and globe holder
  - (3) the assembly is hung from a safety chain freeing both hands
- Fresnel glass lenses and three lamp holder positions permit use of TVA490 fixtures on structures below 50 feet/15.2 meters, from 50 to 100 feet / 15.2 to 30.5 meters, and over 100 feet/30.5 meters.
- A plugged 1" side hub and a 1-1/4" bottom hub provide conduit entry.
- Transfer and failure alarm relays for both one and two lamp fixtures.
- Pilot light assembly contains a red pilot light to indicate lamp failure.

### Standard Materials

- TVA bodies: copperfree (4/10 of 1% max.) aluminum
- Lamp holders: porcelain
- Transfer and failure alarm, pilot light assembly: ferrous alloy enclosure
- Supply wire requirement: 90 °C

### Standard Finish

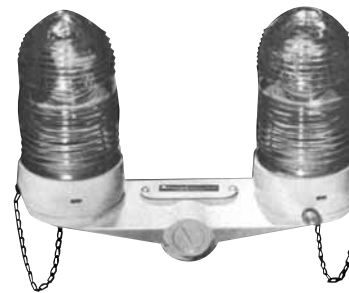
- TVA490: international orange epoxy clad finish
- Transfer failure alarm, pilot light assembly: triple coat – (1) zinc electroplate, (2) chromate and (3) aluminum polymer enamel

### Certifications and Compliances

- CSA Standard: C22.2 No. 250
- CSA Certified: 009349



TVA 1490



TVA 2490

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 **Appleton**

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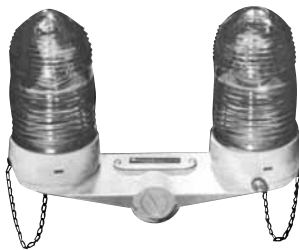
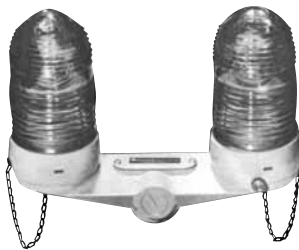





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Lighting

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Description	Hub Size (Inches)		Catalog Number	
	Side	Bottom		
<b>TVA490 Obstruction, Approach and Boundary Lights</b>				
<b>Type A-21 Clear Traffic Signal Light 116 W</b>				
<b>One Lamp Fixtures</b>				
	Obstruction with Red Globe	—	1	TVA1490
	Approach with Yellow Globe	—	1	TVA1490Y
	Boundary with Clear Globe	—	1	TVA1490C
<b>One Lamp Haz. Loc. Fixtures</b>				
	Obstruction with Red Globe	—	1	TVA1490H
	Approach with Yellow Globe	—	1	TVA1490YH
	Boundary with Clear Globe	—	1	TVA1490CH
<b>Two Lamp Fixtures</b>				
	Obstruction with Red Globe	1	1-1/4 ①	TVA2490
	Approach with Yellow Globe	1	1-1/4 ①	TVA2490Y
	Boundary with Clear Globe	1	1-1/4 ①	TVA2490C
<b>Two Lamp Haz. Loc. Fixtures</b>				
	Obstruction with Red Globe	1	1-1/4 ①	TVA2490H
	Approach with Yellow Globe	1	1-1/4 ①	TVA2490YH
	Boundary with Clear Globe	1	1-1/4 ①	TVA2490CH
<b>TVA490 Replacement Parts</b>				
<b>Mounting Fittings</b>				
	With Globe Holder and Lamp Socket			
	Single Lamp	—	1	TVA1400
	Two Lamp	1	1-1/4	TVA2400
<b>Globes</b>				
	Fresnel			
	Red			V-990R
	Aviation yellow			V-990Y
	Clear			V-990C
<b>Lamp Socket</b>				
	Porcelain — Medium Base			V-1025
<b>Globe Gasket</b>				
	Neoprene			V-2055G
<b>Wiring Chamber Cover</b>				
	Cover assembly for two lamp fixture wiring chamber. With gasket and screws			V-2010

① To order with 1/4" to 1" reducer in the bottom hub add suffix **-RB100**.

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# TVA Obstruction, Approach and Boundary Luminaire Accessories






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	Description	Hub Size (Inches)	Catalog Number
<p><b>Lamp Failure Alarm</b></p> 	<p>In the event of both lamps failing in the obstruction light an alarm circuit is triggered. Weather-proof enclosure is furnished with feed-thru hubs. 120 Vac, 50/60 Hz Relay drops out at 0.6 amps.</p>	1	<b>FDC-32R2</b>
<p><b>Transfer Relay and Lamp Failure Alarm</b></p> 	<p>In the event of a lamp failure, power is transferred to the standby lamp and an alarm circuit is activated. Weather-proof enclosure is furnished with feed-thru hubs. 120 Vac, 50/60 Hz Relay drops out at 0.6 amps.</p>	1	<b>FDC-32R1</b>
<p><b>Pilot Light Assembly</b></p> 	<p>Connected to failure alarm to indicate lamp failure. Red pilot light. 6S6 candelabra base lampholder. Dead end enclosure.</p>	1	<b>FD-3J1</b>
<p><b>Photocell</b></p> 	<p><b>(Non-Hazardous)</b> Comes installed in FDO type enclosure, ready for installation. 120 V Only.</p> <p><b>(Class I, Division 2)</b> As above, c/w Encapsulated Photocell for Hazardous Area installation. 120 V Only.</p>		<b>FS601</b>  <b>FS601D2</b>
<p><b>Flasher Assembly</b></p> 	<p>Comes installed in FDO type enclosure, ready for installation. 2500 W Rated, 200 A Max. In-Rush FAA approved 30 FPM Flash Rate.</p>		<b>TVA-FL</b>

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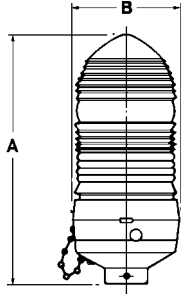
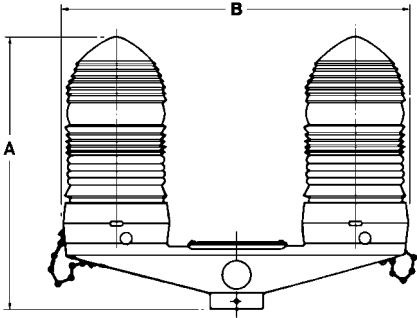
# TVA Obstruction, Approach and Boundary Luminaire Dimensions

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	Description	Dimensions (Inches/Millimeters)		Catalog Number
		A	B	
<p><b>One Lamp</b></p> 	Single	10.00/254.0	4.25/107.95	<b>TVA1490</b>
<p><b>Two Lamp</b></p> 	Twin	10.75/273.05	13.75/349.25	<b>TVA2490</b>

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