

# HIGH FREQUENCY ELECTRONIC BALLASTS

## Programmed Start, Normal Light Output Series



# T5/HO

HIGH POWER FACTOR SOUND RATED A

### Mark 7 0-10V Electronic Dimming Ballast

Lamp Data		Min. Starting Temp. (°F/°C)	Input Volts	Catalog Number	Certifications		Line Current (Amps)	Input Power ANSI (Watts) max/min	Ballast Factor max/min	Max. THD % (at full light output)	Min. Power Factor	Dim./ Wiring Diagram
Number	Watts				UL	ETL						
<b>F54T5/HO</b>												
1	54	50/10	120	RZT-154	✓	✓	0.53	63/12.5	1.00/0.03	10	0.98	Fig. D/55A
			277	VZT-154	✓	✓	0.23					
2	54	50/10	120	RZT-2S54	✓	✓	1.05	125/24	1.00/0.03	10	0.98	Fig. D/56A
			277	VZT-2S54	✓	✓	0.45					
<b>F80T5/HO</b>												
1	80	50/10	277	VZT-180	✓	✓	0.34	94/18	1.00/0.03	10	0.99	Fig. D/55A
<b>FC12T5/HO (55W Circline)</b>												
1	55	50/10	120	RZT-154	✓	✓	0.50	59/12.5	0.90/0.03	10	0.98	Fig. D/55A
			277	VZT-154	✓	✓	0.22					
2	55	50/10	120	RZT-2S54	✓	✓	0.96	114/24	0.90/0.03	10	0.98	Fig. D/56A
			277	VZT-2S54	✓	✓	0.42					

New

CONTROLLABLE

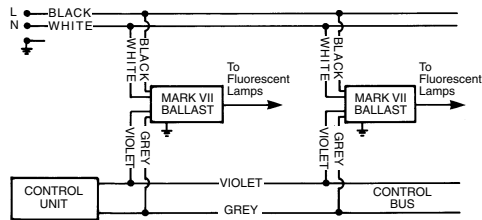
MARK 7 0-10V

Ballasts utilizing poke-in connectors can accept wire gauge AWG 16-20.

#### ONLY USE RAPID-START SOCKETS

#### Mark 7 0-10V Control Wiring (Grey and Violet)

Wire Size	Maximum Length (Ft.)
AWG-16	800
AWG-18	500
AWG-20	320



Wire in accordance with the National Electrical Code and all applicable codes.

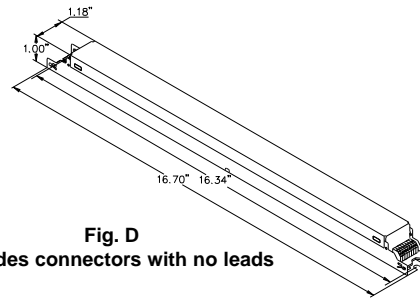
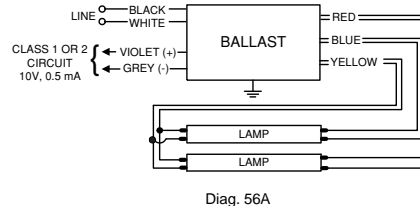
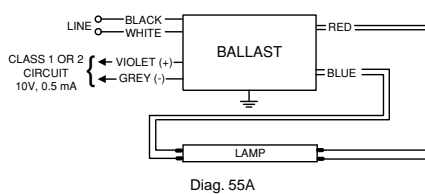


Fig. D  
Includes connectors with no leads



Refer to page 1-7 for information on remote/tandem wiring and lead length extension

Refer to pages 8-32 to 8-41 for lead lengths and shipping data

Use compatible low voltage controls only as referenced on page 2-19 & 2-20



# HIGH FREQUENCY ELECTRONIC BALLASTS

ELECTRONIC  
FLUORESCENT

## ORDERING INFORMATION

### How to Order

Advance Transformer has developed the industry's broadest distribution system for electronic ballasts. More than 3000 stocking distributors nationwide. For information on the distributor best able to serve your needs, please call 800-372-3331.

### Electronic Ballast Part Number Breakdown

I	CF	-	2	S	26	-	H1	-	LD
<p><b>CFL Mounting/Connector Options</b>                      BS = Bottom mounting studs with single entry color coded connectors                      LD = Length mounting feet with SmartMate™ dual entry color coded connectors                      LS = Length mounting feet with single entry color coded connectors                      QS = QuikStart</p> <p><b>Linear Fluorescent Mounting/Connector Options</b>                      TP* = Thermal Protected                      2LS = 2 Level Switching</p>									
<p><b>CFL Can Description</b>                      H1 = Hybrid metal / plastic case, size 1                      L2 = Linear                      M1 = Metal case, size 1                      M2 = Metal case, size 2                      M3 = Metal case, size 3                      M4 = Metal case, size 4                      M5 = Metal case, size 5                      S1 = Square, style 1                      S2 = Square, style 2                      SC = Small can</p> <p><b>Linear Fluorescent Can Description</b>                      90C = 90°C maximum case temperature rating                      HL = High light output                      LW = Low watt                      MC = Micro can                      RH* = Reduced harmonics                      S = Slimline                      SC = Small can</p>									
<p><b>Lamp Watts (Primary lamp)</b></p>									
<p><b>Wiring Configuration</b>                      D = 2D, series                      M = Modified parallel**                      P = Parallel                      Q = Quad CFL, series                      S = Series                      T = Triple CFL, series                      TTS = Long twin tube, series                      TTP = Long twin tube, parallel</p>									
<p><b>Maximum Number of Lamps</b></p>									
<p><b>Family Name</b>                      CF = Compact Fluorescent                      CN = Centium                      DA = ROVR                      DA &amp; DL = ROVR                      EL = Standard                      EZ = Mark 10® Powerline                      IC = Mark 5®                      MB = Matchbox                      OP = Optanium                      ZT = Mark 7® 0-10V</p>									
<p><b>Input Voltage</b>                      G = 347V                      H = IntelliVolt-Hi (347V through 480V, 50/60 Hz)                      I = IntelliVolt™ (120V through 277V, 50/60 Hz)                      R = 120V                      V = 277V                      X = 220V</p>									

\* Many current and all future electronic ballast part numbers will not use the "RH-TP" suffixes even though these ballasts will be thermally protected.

\*\* Parallel Wiring Configuration. However, if one lamp fails, all other lamps in the circuit will extinguish.

Corporate Offices  
(800) 322-2086

Press 1

To reach Customer Service

Press 2

If you know the last name and you will reach the spell by name directory

Press 0

Or stay on the line to be connected to the operator

You may dial the four digit extension of the person you want to reach at any time

Visit our web site at

[www.advancetransformer.com](http://www.advancetransformer.com)

Customer Support/  
Technical Service

(800) 372-3331

+1 (847) 390-5000 (International)

Dial the four digit extension of the person you want to reach

Press 1

For customer support

Press 2

For technical applications,  
or warranty information

Press 4

To dial by name

- Plan your lighting installation carefully; consider using the services of a qualified lighting designer
- Consult your local electric utility regarding demand side management rebate programs.
- Select the Advance electronic ballast which best matches the requirements of your application. The technical specifications in this catalog (located on pages 8-14 to 8-30) will be useful in obtaining bids from electrical contractors.
- Contact your local Advance distributor. You will find them to be a helpful supplier of both products and information.



# HIGH FREQUENCY ELECTRONIC BALLASTS

## Programmed Start, Normal Light Output Series

# FT5



NORMAL POWER FACTOR SOUND RATED A

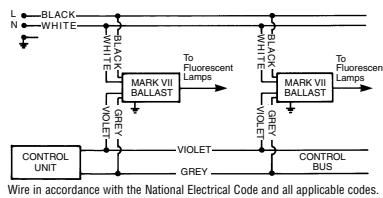
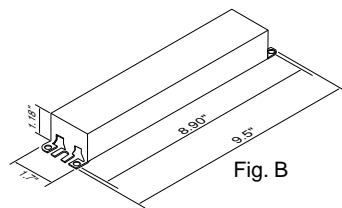
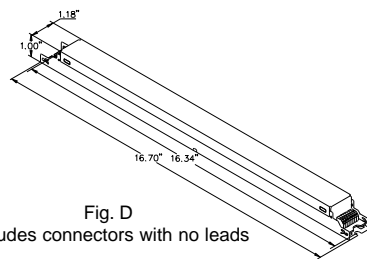
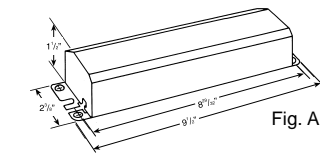
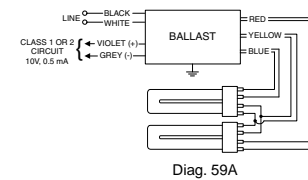
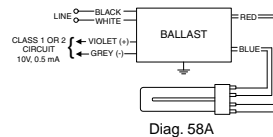
### Mark 7 0-10V Electronic Dimming Ballast

Lamp Data		Min. Starting Temp. (°F/°C)	Input Volts	Catalog Number	Certifications		Line Current (Amps)	Input Power ANSI (Watts) max/min	Ballast Factor max/min	Max. THD % (at full light output)	Min. Power Factor	Dim./ Wiring Diagram	
Number	Watts				UL	SR							
<b>FT36W/2G11/RS - 36W Long Twin Tube Lamp (PL-L36W, F39/36BX, FT36DL)</b>													
New	1	36	50/10	120	IZT-1TTS40-SC	✓	✓	0.32	38/9	1.00/0.03	10	0.99	Fig. B/58A
				277	IZT-1TTS40-SC	✓	✓	0.14					
New	2	36	50/10	120	IZT-2TTS40-SC	✓	✓	0.64	75/16	1.00/0.03	10	0.99	Fig. B/59A
				277	IZT-2TTS40-SC	✓	✓	0.27					
<b>FT40W/2G11/RS - 40W Long Twin Tube Lamp (PL-L40W, F40/30BX, FT40DL)</b>													
New	1	40	50/10	120	RZT-1TTS40*/IZT-1TTS40-SC**	✓	✓	0.32	38/11	1.00/0.05 (0.03)	10	0.99	Fig. A (Fig. B) /58A
				277	VZT-1TTS40*/IZT-1TTS40-SC**	✓	✓	0.14					
New	2	40	50/10	120	RZT-2TTS40*/IZT-2TTS40-SC**	✓	✓	0.64	76/16	1.00/0.05 (0.03)	10	0.99	Fig. A (Fig. B) /59A
				277	VZT-2TTS40*/IZT-2TTS40-SC**	✓	✓	0.28					
<b>FT55W/2G11 - 55W Long Twin Tube Lamp (F55BX, FT55DL)</b>													
	1	55	50/10	120	RZT-154	✓	✓	0.50	59/13	0.90/0.03	10	0.98	Fig. D/58A
				277	VZT-154	✓	✓	0.22					
	2	55	50/10	120	RZT-2S54	✓	✓	0.96	114/24	0.90/0.03	10	0.98	Fig. D/59A
				277	VZT-2S54	✓	✓	0.42					
<b>FT80W/2G11 - 80W Long Twin Tube Lamp (PL-L80W, FT80DL)</b>													
New	1	80	50/10	277	VZT-180	✓	✓	0.34	94/16	1.00/0.03	10	0.99	Fig. D/58A

CONTROLLABLE

MARK 7 0-10V

\* To be replaced with -SC 1Q 2004 \*\* To replace large can units 1Q 2004  
 Burn in new lamps 100 hours at full light output before dimming.  
 Ballasts utilizing poke-in connectors can accept wire gauge AWG 16-20.



Refer to page 1-7 for information on remote/tandem wiring and lead length extension

Fig. M5

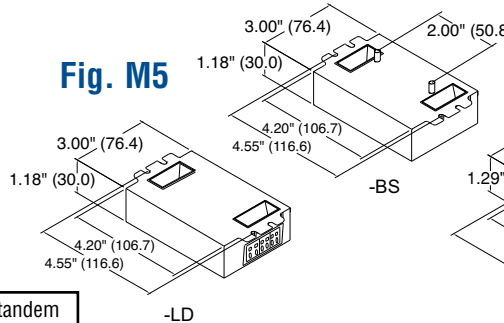


Fig. M2

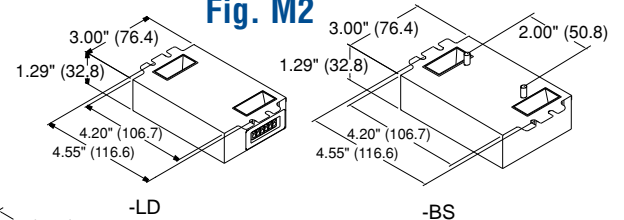
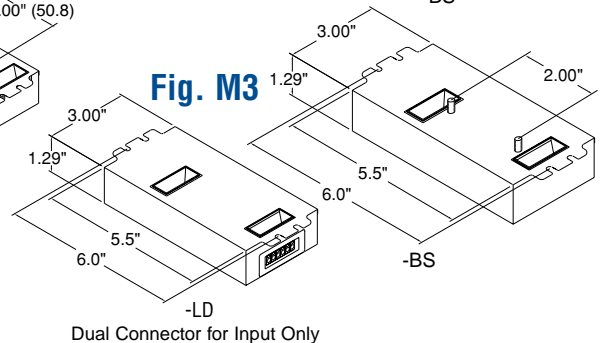


Fig. M3



Refer to pages 8-32 to 8-41 for lead lengths and shipping data

Use compatible low voltage controls only as referenced on page 2-19 & 2-20

