

PREMIUM PERFORMANCE OPTIONS - LAMPS & BALLASTS

Texas Fluorescents allows you to enhance each fixture with a variety of options to ensure that each fixture meets the exact requirements of the application. Some options improve the performance of the fixture in specific applications (ie: ballast choices, occupancy sensors, wire guards and lens), and some make installation easier and more user friendly. See all the options below. Consult factory to ensure that the options noted are available for the specific fixture you are specifying.

Ballast Options



Choose from a variety of ballast options. Add these ordering codes to the end of the specified item number to get the ballast shown.

ITEM NO.	DESCRIPTION
S	Residential Electronic 120 Volt
MV	Electronic 120 to 277 Volt
E120	Electronic 120 Volt
E277	Electronic 277 Volt
M120	Magnetic 120 Volt
M277	Magnetic 277 Volt
E480	Electronic 480 Volt
HMV	High Power Factor (1.14 to 1.18)*
LMV	Low Power Factor (.75 to .78) Multi-Volt*
RMV	Rapid Start Multi-Volt*
PMV	Pro Start Multi-Volt
CMV	Cold Start Multi-Volt
BMV	High Temperature (90C) Multi-Volt
TMV	THD<10%
DMV*	0-10V Dimming Low Voltage Fluorescent dimmers. 2 additional leads req.
GMV*	For Phase or "two wire" fluorescent dimmers. No additional leads.
X	No Ballast
STMV	Step Dimming Ballast (100% or 50%)

*(For dedicated Voltage change MV to 120 or 277)

High Performance Systems

High Performance T8 Parabolic provide an energy savings alternative to standard T8 fixtures of up to 40%. Meeting the CEE (Consortium for Energy Efficiency) High Performance T8 qualification for high lumen lamps and energy efficient electronic ballasts, each fixture comes with high light output lamps and high ballast factor ballasts. The benefits of high performance systems are they provide energy savings, higher maintained lumens over the life of the lamp, reduced maintenance and disposal costs, and higher color rendering.

High Performance Lamps

High Performance lamps must have:

- Color Rendering Index (CRI) > 81
- Minimum initial lumens > 3100
- Lamp life > 24,000 hrs at 3 hrs per start
- Lumen maintenance of > 94% or minimum mean lumens of > 2,900

ITEM NO.	GE ITEM NO.	DESCRIPTION
T8		
F32T8/XL/SPX41*/HL/EC	10322	29,000 Hours; 3,100 Lumens**
T5		
F28T5/841*/HL/ECO	71654	20,000 Hours
F28T5/841*/ECO	46706	30,000 Hours; 2,900 Lumens
F54T5/841*/ECO	46761	30,000 Hours; 5,000 Lumens

High Performance Ballasts

High Performance ballasts must have:

- Ballast frequency of 20 to 33 kHz or > 40 kHz
- Power Factor > 0.90
- Total harmonic distortion < 20%
- Meet Ballast Efficiency Factors based on # of lamps in fixture (Consult Factory)

ITEM NO.	GE ITEM NO.	DESCRIPTION
T8		
GE 232MAX/H/ULTRA (1 or 2 Lamp)	49775	Instant Start; Ballast Factor 1.18
GE 432MAX/H/ULTRA (3 or 4 Lamp)	71723	Instant Start; Ballast Factor 1.18
GE 232-MVPS-H (1 or 2 Lamp)	29675	Program Start; Ballast Factor 1.18
GE 432-MVPS-H (3 or 4 Lamp)	29678	Program Start; Ballast Factor 1.18
T5		
GE 228MVPSH-A (1 or 2 Lamp)	99653	Program Start; Ballast Factor 1.18
GE 254MVPS90-F (1 or 2 Lamp)	99651	Program Start; Ballast Factor 1.0; High Temp.
GE 454MVPS90-F (3 or 4 Lamp)	99649	Program Start; Ballast Factor 1.0; High Temp.

For High Performance Fixtures with the above Lamps & Ballasts Add These Suffixes

ITEM NO.	DESCRIPTION
T8 OPTIONS	
HPT8 (Color Temp)	High Performance T8 Lamps and Ballasts
HPT8 (Color Temp)PS	High Performance T8 Lamps and Program Start Ballasts
T5 OPTIONS	
HPT5 (Color Temp)	High Performance T5 Lamps and Ballasts

* Choice of Color Temperatures - Change Number for 3000 (30), 3500 (35), or 5000 (50).

** Standard F32T8 lamp is 20,000 hours and 2,800 Lumens.



Fixture
Equipped
with a Quality
GE Ballast

PREMIUM PERFORMANCE OPTIONS - LAMPS & BALLASTS

Reduce Wattage Systems

Performance Characteristics for Lamps:

- Mean System Efficacy > 90 MLPW
- Color Rendering Index > 80
- Minimal Initial Lamp Lumens > 2585 for 28W; > 2400 lumens for 25W
- Lumen Maintenance > 94%

Performance Characteristics for Ballasts:

- Ballast Frequency 20 to 33 kHz or > 40 kHz
- Power Factor > 0.90
- Total Harmonic Distortion < 20%
- Ballast Efficacy Factor - Consult Factory



Fluorescent Dimming

Quicktronic Powersense T8 Dimming Multi-Volt Operates (1 to 4) T8 Linear Lamps over a wide (100 - 5%) dimming range. Operates from standard low voltage (0-10VDC) fluorescent controllers or compatible 2-wire power line fluorescent dimmers, making them ideal for individual office lighting or automated building applications.

For the individual office or conference room, installation can be streamlined by using a 2-wire power line dimmer; eliminating the need for additional control wire. For more advanced systems such as daylighting harvesting or building automation applications, standard low voltage devices (0-10VDC, Class 1 or 2) are used to control the lighting system.

Sylvania Quicktronic PHO-Dim is available in one or two lamp models in 120V or 277V to control T5 lamps over a 100 to 1% dimming range. Use a 1-10V DC control.

Controls



Preset Slider

28 and 25 Watt reduced wattage T8 lighting systems are now available providing reduced energy consumption with minimal loss in light output. Although, the systems are formally designed for T8 systems, there are now T5 reduced wattage systems as well.

Low Wattage Lamps

ITEM NO.	GE ITEM NO.	DESCRIPTION
T8		
F32T8/25W/SPX41*/EC (25 Watts)	72130	36,000 Hours; 2,400 Lumens
F28T8/XL/SPX41*/ECO (28 Watts)	72866	24,000 Hours; 2,725 Lumens
T5		
F28T5/841*/WM/ECO (26 Watts)	71644	25,000 Hours; 2,900 Lumens
F54T5/841*/WM/ECO (51 Watts)	71629	25,000 Hours; 5,000 Lumens

Low Wattage Ballasts

ITEM NO.	GE ITEM NO.	DESCRIPTION
T8		
GE 232MAX/L/ULTRA (1 or 2 Lamp)	72262	Instant Start; Ballast Factor .77
GE 432MAX/L/ULTRA (3 or 4 Lamp)	71725	Instant Start; Ballast Factor .77
GE 232-MVPS/L (1 or 2 Lamp)	96720	Program Start; Ballast Factor .71
GE 432-MVPS/L (3 or 4 Lamp)	71832	Program Start; Ballast Factor .71

For Reduced Wattage Systems with the above Lamps & Ballasts Add These Suffixes

ITEM NO.	DESCRIPTION
T8 OPTIONS	
RWT8 (Color Temp)	High Performance T8 Lamps and Ballasts
RWT8 (Color Temp)PS	High Performance T8 Lamps and Program Start Ballasts
T5 OPTIONS	
RWT5 (Color Temp)	High Performance T5 Lamps and Ballasts

- * Choice of Color Temperatures - Change Number for 3000 (30), 3500 (35), or 5000 (50).
- ** Standard F32T8 lamp is 20,000 hours and 2,800 Lumens.

Texas Fluorescents can provide dimming ballasts from all major brands including Advance, Lutron, Universal and more. Choose either 0-10VDC system (4 input wires) or 2 wire system for T8 or T5 lamps. Texas Fluorescents can also supply dimming options for compact fluorescent lamps. Sylvania's Quicktronic Powersense T8 and Quicktronic Helios T5 Dimming ballasts provide a range of features along with excellent value. Consult factory for the dimming ballast for your next project.

Dimmable Ballasts

ITEM NO.	SYLVANIA ITEM NO.
T5 DIMMING	
QTI1X54/120PHO-DIM	49671
QTI1X54/277PHO-DIM	49672
QTI2X54/120PHO-DIM	49673
QTI2X54/277PHO-DIM	49674
T8 DIMMING	
QTP 1x32T8/UNV-DIM-TC	50705
QTP 2x32T8/UNV-DIM-TC	50707
QTP 3x32T8/UNV-DIM-TC	50714
QTP 4x32T8/UNV-DIM-TC	50716

Fluorescent Controls

LEVITON #	DESCRIPTION	RATING
For 2 Wire Ballasts		
IPX06-10	Preset Slider	600VA-120VAC
IPX10-10	Preset Slider	1000VA-120VAC
IPX06-70	Preset Slider	600VA-277VAC
IPX12-70	Preset Slider	1200VA-277VAC
For 0-10V Ballasts		
IPX710-DL	Preset Slider	1200VA @ 120VAC

PREMIUM PERFORMANCE OPTIONS - BALLASTS

Extended System Warranty



GE as well as other ballast and lamp suppliers offer an extended warranty on lamps and ballasts if you use coordinated lamp and ballasts on your project. Using GE lamps with GE ballasts normally provide 3 years of lamp warranty and 5 years of ballast warranty. Consult factory for specific information.

ITEM NO.	DESCRIPTION
GE	GE Extended Warranty
Add "GE" before Ballast and Lamp Designation.	

Switch Genie Ballast and Switch



The SwitchGenie ballast is a "Green" ballast with a microprocessor that is patented and uses entirely digital technology. This unique ballast responds to a standard light switch to control the output of the fixture. The SwitchGenie ballast turns on one lamp at a time per fixture based on toggling the light switch. The action of turning the switch off and on in two seconds sends a digital signal to the ballast and microprocessor "reads" this signal and turns on the next lamp. So if you have a 4 lamp fixture, you can have 1, 2, 3 or all 4 lamps on at any one time. Add a Switch Genie Control and get even more control over your lighting system. Consult factory for for brochure and specifications.

ITEM NO.	DESCRIPTION
SGMV	Switch Genie Ballast Multi-Volt
SGMV+	Switch Genie Ballast Multi-Volt plus Switch Genie Control

Multiple Ballast



Specify the number of ballasts required in the fixture based on how the fixture will be controlled. Add the following codes to the end of the ballast designation.

ITEM NO.	DESCRIPTION
(11)	Dual Ballasts 1 Lamp + 1 Lamp
(21)	Dual Ballasts 2 Lamp + 1 Lamp
(22)	Dual Ballasts 2 Lamp + 2 Lamp
(31)	Dual Ballasts 3 Lamp + 1 Lamp
Example: 131A432MV(31)	

Occupancy & Daylight Sensors



Texas Fluorescents can add Occupancy or Daylights Sensors to your fixtures for greater control and energy savings. Add the code that designates the type and positioning of the

CODE	DESCRIPTION
OCCUPANCY SENSORS	
MDT4	On/Off, 1 pole, Wide Field, High Mount
MDT3	On/Off, 1 pole, Wide Field, Low Mount
MDT1	On/Off, 1 Pole, Narrow Field
MDR2	On/Off, 2 Pole, Wide Field
MDR1	On/Off, 2 Pole, Narrow Field
MDV2	Dimming, Wide Field
MDV1	Dimming, Narrow Field
DAYLIGHT SENSORS	
MDE	On/Off, 1 Pole
MDD	Dimming
COMBINED OCCUPANCY & DAYLIGHT SENSORS	
MDF4	On/Off, 1 Pole, Wide Field, High Mount
MDF3	On/Off, 1 Pole, Wide Field, Low Mount
MDF1	On/Off, 1 Pole, Narrow Field
MDG4	On/Off, 1 + 1 Pole, Wide Field, Hi Mount
MDG3	On/Off, 1 + 1 Pole, Wide Field, Low Mount
MDG1	On/Off, 1 + 1 Pole, Narrow Field

Sensor Specifications and Operation

Occupancy Sensor - OPERATION

If no motion is detected for a field adjustable time delay, on/off sensors break power to the ballast(s). When multiple ballasts are specified, on/off sensors may control one or all ballasts.

Dimming sensors are similar - alternating between high and low light output. Type D (0-10V) dimming ballasts must be specified with the fixture to use a dimming sensor.

Daylight Sensor - OPERATION

If ambient light levels exceed a field adjustable intensity, on/off sensors break power to the ballast(s) after a fixed time delay. With multiple ballasts, on/off sensors may control one or all ballasts.

Dimming daylight sensors have both high and low ambient light level adjustable set points. Fluorescent light levels vary proportionally; maximum fluorescent output occurs when ambient levels are low; high ambient levels force fluorescent light to dim. Specify type D (0-10V) dimming ballasts with the fixture to use a dimming sensor.

Combined Occupancy + Daylight Sensor - OPERATION

1 pole. If light levels exceed a field adjustable intensity, sensors break power to the ballast(s) after a fixed time delay. The motion sensor is defeated. If light levels are below the intensity set point, the occupancy sensor controls operation as described in "occupancy sensor - OPERATION" above.

1+1 pole. This sensor is used only with fixtures containing multiple ballasts. The daylight sensor controls one ballast, the occupancy sensor controls the other ballast. The operation of each sensor functions a individually described above.

EMERGENCY BALLASTS

T5, T8 & T12 Battery Packs



The fluorescent emergency ballast allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the ballast switches to the emergency mode and operates one or two of the existing lamps for a minimum of 90 minutes. The unit contains a battery, charger and inverter circuit in a single package. The ballast can be mounted in the wireway or on top of the fixture, and is UL listed for factory installation or retrofit applications, and also damp location listed.

ITEM NO.	LUMENS	WORKS WITH
BAL500	450-500	17W - 40W, 4 FT. Max, T8, T10, T12, Slimline
BAL650C-2	350-650	Quad or Triple 2-Pin Fluorescents
BAL650C-4	350-650	Quad or Triple 4-Pin Fluorescents
BAL700	700	17W - 215W, 8 FT. Max, T8, T10, T12, U-Lamp, Slimline
BAL1400	1100-1400	17W - 215W, 8 FT. Max, T8, T12, T12, U-Lamp, Slimline
BAL3000	3000	17W - 215W, 8 FT. Max, T8, T10, T12, BIAx, Slimline
BALT5-1300	1300	17W - 40W, T8, T10, T12, (1) 8W - 54W T5 & T5HO lamp



Lamp Compatibility Chart

MODEL	BAL500	BAL650C-2	BAL700	BAL650C-4	BAL1400	BAL3000	BALT5
Lumens	500	600	700	650	1400	3000	1300
<i>Linear Lamps</i>							
2'-4' Rapid, Instant, or Energy Savings, T8-T12, HO, VHO	1		1 or 2	1	1 or 2	1 or 2	1
2'-8' Rapid, Instant, or Energy Savings, Circline T8-T12, HO, VHO			1		1	1	1
8W-28W - T5*	1		1		1 or 2	1 or 2	1
54W-T5HO					1 or 2	1 or 2	1
<i>Compact Fluorescent Lamps</i>							
13-39W Twin/Quad/TT - 4-pin (G24q/GX24q base)			1 or 2	1 or 2	1 or 2	1 or 2	
13-42W Twin/Quad/TT - 4-pin (G24q/GX24q base)			1	1	1	1 or 2	
10-26W Quad/TT - 2-pin (G24d/GX24d base)		1					
17W-40W 4-pin compact	1		1 or 2		1 or 2	1 or 2	1
40W-55W 4-pin compact			1		1	1	1
<i>Specialty Lamps</i>							
20-40W T9/T10/T12 Circline Lamps	1		1 or 2		1 or 2	1 or 2	
16-38W 2D - 4-pin (GR10q base)						1 or 2	
55W 2D - 4-pin (GR10q base)						1	1

PREMIUM PERFORMANCE OPTIONS - DOOR & LENS

Fluorescent Door & Lens Options

Texas Fluorescents provides a full assortment of lens and door frame options. If you don't see it here, consult factory.



Flush steel door frame, white finish



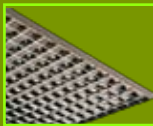
Regressed door frame, aluminum, white, or black finish

Troffer Door Frames

Door frames may be field re-located to hinge from either side. Cam locks provide secure closure.



A12 Pattern.
0.18" diamond prism
Standard is 0.10 in. thick
Also available in 0.125" thick



Specular parabolic grid, sizes:
1/2 sq x 3/8" deep, 3/4 sq x 1/2" deep, and 1 1/2 sq x 1" deep



White cube grid, available in
1/2 sq x 3/8" deep.

CODE	DESCRIPTION	EXAMPLE
Blank	Flush steel door	131A432E120
RA	Regressed AL door, white	131A432E120RA
RAB	Regressed AL door, black	131A432E120RAB
GK1	Single gasketed door - Single (lens to door frame)	131A432E120GK1
GK2	Double gasketed door - (lens/frame + frame to troffer)	131A432E120GK2
GK3	Triple gasketed (lens/frame + frame/troffer + troffer to T-bar grid)	131A432E120GK3
A	A12 0.10" thick lens	131A432E120
A125	A12 0.125" thick lens	131A125432E120
A19	A19 0.156" thick lens	131A19432E120
CL	Clear 0.10" thick lens	131CL432E120
CL125	Clear 0.125" thick lens	131CL125432E120
MW	Matte White 0.10" thick lens	131MW432E120
SP1	Spec para grid 0.5Sq x 0.38Dp	131SP1432E120
SP4	Spec para grid 0.75Sq x 0.50Dp	131SP4432E120
SP2	Spec para grid 1.5Sq x 1.0Dp	131SP2432E120
PLA	White Grid 0.5Sq x 0.38Dp	131PLA432E120
C	3 in nominal semi specular louver	PARA18C332E120
F	3 in nominal full specular louver	PARA18F332E120
W	3 in nominal full white louver	PARA18W332E120
LA	Lens Overlay, A12 0.10"tk	SBP9LA317E120
Blank	Perf basket, White inlay	RDI224E120
O	Opal lens	DPO254MV
C	Clear polycarbonate lens	DPC254MV

Parabolic Cell Configurations

8 Cell: 1 Row of 8	12 Cell: 2 Rows of 6	18 Cell: 3 Rows of 6
9 Cell: 3 Rows of 3	6 Cell: 4 Rows of 4	24 Cell: 3 Rows of 8
		32 Cell: 4 Rows of 8

Standard Cells are Low Iridescent. Consult for Specular Finish.

Lamp Diffusers



Enhance your strip with Tube Guards or U shaped clip acrylic diffusers.

ITEM NO.	DESCRIPTION
CLIP132	4' Matte White Diffuser W/ Clip for 4' one Light stirp
CLIP196	8' Matte White Diffuser W/ Clip for 8' one Light stirp
CLIP232	4' Matte White Diffuser W/ Clip for 4' two Light stirp
CLIP296	8' Matte White Diffuser W/ Clip for 8' two Light stirp
TP312CLR	Clear Tube Guard for 4' T12 Lamps
TP312COLOR	Colored* Tube Guard for 4' T12 Lamps
TP308CLR	Clear Tube Guard for 4' T8 Lamps
TP308COLOR	Colored* Tube Guard for 4' T8 Lamps
TP612CLR	Clear Tube Guard for 8' T12 Lamps
TP612COLOR	Colored* Tube Guard for 8' T12 Lamps
TP608CLR	Clear Tube Guard for 8' T8 Lamps
TP608COLOR	Colored* Tube Guard for 8' T8 Lamps
TP305CL**	Clear Tube Guard for T5 4'
TP305HOCL	Clear Tube Guard for T5 HO 4'
TP305CLR	Colored* Tube Guard for T5 4'
TP305HOCOLOR*	Colored* Tube Guard for T5 HO 4'

*Colors: RED, PNK, GRN, BLU, GLD, YEL

** Not for HO Version

Reflector Options



Style 1



Style 2



Style 3



Style 4

Texas Fluorescents design, engineers and manufacturers its reflectors to put the light exactly where you want it. Choose from White Steel Reflector, Enhanced White Aluminum Reflector or Mirrored Reflectors in different configurations.

ITEM NO.	DESCRIPTION	STYLE #
W30	White Steel Reflector	1
W14	Enhanced White Aluminum Reflector Standard Mount	1
M24	Mirrored Reflector Standard Mount	1
W30UP	White Steel Reflector Uplight	1
W35	White Steel Reflector Asymmetric	2
M25	Mirrored Reflector Asymmetric	2
M22	Mirrored Reflector Low Mount	3
W16	Enhanced White Aluminum Reflector High Mount	4
M26	Mirrored Reflector High Mount	4

PREMIUM PERFORMANCE OPTIONS - WIRING

Fluorescent Wiring Options



Whips: Flexible conduit, factory installed in access plate or EKO



Factory installed cord sets are available in black, white, various lengths, and plug styles.



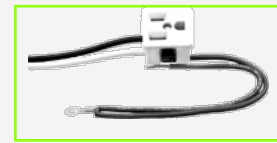
Disconnects may be added to any recessed fixture to meet National Electric Code (NEC) requirements.

Save time and money by having Texas Fluorescents wire the fixture to make installation easier and faster. Add these codes to the item number to specify.

CODE	DESCRIPTION
WP	6ft whip, 3/18ga
WP10	6ft whip, 4/18ga
WP12	6ft whip, 5/18ga
CS	8ft 120V 5-15P Cordset
CSW	8ft 120V 5-15P Cordset,white
CSB	8ft 120V 5-15P Cordset,black
CS08	8ft 3/18 Cord, no plug
CS10	12ft 3/18 Cord, no plug
CS11	12ft 120V 5-15P Cordset
CS12	8ft 277V L7-15P Cordset
GLR	Internal Fast-blow fuse
GMF	Internal Slow-blow fuse
GCO	Convenience Outlet
D	Disconnect (Now Required by NEC.)



GLR/GMF



GCO

Mounting Kits



SCS



HC202

A full assortment of mounting options are available to meet your specific installation requirements. Consult factory for additional options.

ITEM NO.	DESCRIPTION
HIBAY FLUORESCENTS	
HC101	Chain Kit, incl. (S) S Hooks, 20ft. Chain
HC202	Tong Hangers, end mount (pair)
HC203	Tong Hangers, side mount (pair)
5HBD	Single point hanger adapter for HBP Series
7HBD	Single point hanger adapter for HBG Series
GT310	NO2-10FT CABLE KIT(2PK). (For use with holes in High Bay)
GT315	NO2-15FT CABLE KIT(2PK). (For use with holes in High Bay)
GL310	NO2-10FT CABLE KIT(2PK). (For use with loops/hooks in High Bay)
GL315	NO2-15FT CABLE KIT(2PK). (For use with loops/hooks in High Bay)
LINEAR PENDANTS	
HC301WH	Cable kit with 4' Cable and Power Feed/Cable Included and White Canopy.
HC302WH	Cable kit with 12' Cable and Power Feed/Cable Included and White Canopy.
HC401WH*	Cable kit with 4' Cable and Power Feed/Cable Included and White Canopy.
HC402WH*	Cable kit with 12' Cable and Power Feed/Cable Included and White Canopy.
SCS24WH	One Stem kit with 24" Stem, Canopy and Mounting Hardware.
2SCS24WH	Two stem kits with 24" Stem, Canopy and Mounting hardware for a 4' fixture.

*Specifically designed for PLIN fixtures.