

# 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                |
|--------------------------------|-------------|----------------------------|
| <b>T8</b>                      |             |                            |
| 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 |
| <b>T5</b>                      |             |                            |
| 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                       |
|---------------------------------|-------------|-----------------------------------|
| <b>T8</b>                       |             |                                   |
| 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  |
|---------------------|--|
| <b>T8 OPTIONS</b>   |  |
| RWT8 (Color Temp)   | High Performance T8 Lamps and Ballasts               |
| RWT8 (Color Temp)PS | High Performance T8 Lamps and Program Start Ballasts |
| <b>T5 OPTIONS</b>   |  |
| 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. |
|-----------------------|-------------------|
| <b>T5 DIMMING</b>     |                   |
| QTI1X54/120PHO-DIM    | 49671             |
| QTI1X54/277PHO-DIM    | 49672             |
| QTI2X54/120PHO-DIM    | 49673             |
| QTI2X54/277PHO-DIM    | 49674             |
| <b>T8 DIMMING</b>     |                   |
| 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          |
|----------------------------|---------------|-----------------|
| <b>For 2 Wire Ballasts</b> |               |                 |
| IPX06-10                   | Preset Slider | 600VA-120VAC    |
| IPX10-10                   | Preset Slider | 1000VA-120VAC   |
| IPX06-70                   | Preset Slider | 600VA-277VAC    |
| IPX12-70                   | Preset Slider | 1200VA-277VAC   |
| <b>For 0-10V Ballasts</b>  |               |                 |
| 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                               |
|--|---|
| <b>OCCUPANCY SENSORS</b>                         |   |
| 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                     |
| <b>DAYLIGHT SENSORS</b>                          |   |
| MDE  | On/Off, 1 Pole                            |
| MDD  | Dimming                                   |
| <b>COMBINED OCCUPANCY &amp; DAYLIGHT SENSORS</b> |   |
| 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     |