



### 4-pin CFL Electronic Instant Start Ballasts

More energy efficient than magnetic 2-pin ballasts; compatible with occupancy sensors and dimming systems.  
 Ballasts can operate with a variety of lamp sizes, contact vendor for information on appropriate ballast for lamp in question.

SF City staff are required to buy products below that meet these criteria:

- Class A sound rating.
- Power factor of 90 or greater.
- High-frequency and operate lamps at a frequency above 42Hz.
- Current crest factor of 1.7 or less.
- Must provide independent lamp operation.
- Must employ end-of-life (EOL) circuitry.

Basic Info		Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Sample Ordering Code
Manufacturer	Product Line	SF City depts.: Contact approved vendors below and get <u>these discounted prices.</u>	
GE	<a href="#">UltraMax High Lumen Biax Multivolt</a>	nsmith@omegapacific.com, 415-642-2195	GEC140MAX-A
Philips	<a href="#">AmbiStar</a>	Troy.Vaughn@regencylighting.com, 415-845-2269	RCF2S26H1LDQS
	<a href="#">Centium</a>		ICN-2S24-N
Sylvania	<a href="#">QUICKTRONIC QHE DL40 Universal Voltage</a>	armand@maltbyelectric.com, 415-863-5000	QHE 2x40DL/UNV ISN-SC



**4-pin CFL Electronic Program Start Ballasts**

More energy efficient than magnetic 2-pin ballasts; compatible with occupancy sensors and dimming systems.  
 Ballasts can operate with a variety of lamp sizes, contact vendor for information on appropriate ballast for lamp in question.

- SF City staff are required to buy products below that meet these criteria:
- Class A sound rating.
  - Power factor of 90 or greater.
  - High-frequency and operate lamps at a frequency above 42Hz.
  - Current crest factor of 1.7 or less.
  - Must be multi-volt and run on 120V, 230V and 277V.
  - Must employ end-of-life (EOL) circuitry.

Basic Info		Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Sample Ordering Code
Manufacturer	Product Line	SF City depts.: Contact approved vendors below and get <a href="#">these discounted prices.</a>	
GE	<a href="#">MultiVolt ProLine</a>	nsmith@omegapacific.com, 415-642-2195	GEC213-MVPS-3W
	<a href="#">UltraStart High Lumen Biax MultiVolt</a>		GEC225MVPS-A
Philips	<a href="#">Optanium</a>	Troy.Vaughn@regencylighting.com, 415-845-2269	IOP-2PSP54-SC
	<a href="#">SmartMate</a>		ICF-2S42-M2-BS
Sylvania	<a href="#">QUICKTRONIC PROstart OTP HELIOS Universal Dimming</a>	armand@maltbyelectric.com, 415-863-5000	QTP 2x26CF/UNV DIM-DM
	<a href="#">QUICKTRONIC PROstart Universal Dual Entry System</a>		QTP 2x26CF/UNV DM