

# LIGHTING ENERGY SAVER - 'FTES'

**Saves Energy upto 30%\* or More!**

**For A 40 W Tube Light The Savings Are Upto Rs. 250/- \* per year.**

- Extremely Low payback period of 6-8 months
- Electricity Savings from 17 to 35%
- Doubles the life of Light filament
- Increases the Life of Ballast
- No Need to Modify / Change the existing Lighting fixture
- No Need to Modify / Change the wiring
- Fixes next to Main Isolator/MCB
- Initial Startup at full Voltage, for the filaments to start Reliably
- Automatic Change over to Energy Saving Mode [after 3 min of Startup]
- Settable Energy Saving percentage (to adjust savings/LUX level)
- Overload Protection MCB Inbuilt
- Auto/Manual Change Over MCB Inbuilt
- Optional Metal Box with Hour-meter to calculate savings



FTES is a Lighting Energy Saver which helps in reducing the energy consumption by reducing the applied voltage without a proportionate reduction in the illumination level. FTES enables you to adjust level of savings of upto 35% or more. The first 10-15% savings are realised without any perceptible drop in illumination level. FTES is suitable for fluorescent as well as incandescent, mercury vapour, metal halide, quartz, etc.

**SAVINGS TABLE CALCULATED FOR 40W FLUORESCENT TUBE FIXTURES+10W FOR CHOKE  
CALCULATED FOR 100 FIXTURES@50W PER FIXTURE RATED AT 230Vac.**

	210	215	220	225	230	235	240	245
1 VIN - [VOLTS]	210	215	220	225	230	235	240	245
2 VOUT [WITH FTES]	180	185	190	195	200	205	210	215
3 KW. CON. [W/O. FTES]	4.1682	4.3691	4.5747	4.785	5.000	5.2198	5.4442	5.6734
4 WATTS [WITH FTES]	3.0624	3.2349	3.4121	3.594	3.7807	3.9721	4.1682	4.3691
5 KW/HR. SAVINGS [3-4]	1.106	1.134	1.163	1.191	1.219	1.248	1.276	1.304
6 SAVINGS *KWH/MONTH	398.11	408.32	418.53	428.73	438.94	449.15	459.36	469.57
7 SAVINGS *Rs. /MONTH	1990.5	2041.6	2092.6	2143.7	2194.7	2245.7	2296.8	2347.8
8 SAVINGS *Rs. /YEAR	23,887	24,499	25,112	25,724	26,336	26,949	27,561	28,174

IN A MONTH CONSIDERED 12HOURS/DAY AND 30 DAYS - RATE CONSIDERED @Rs.5/- kwh

\* figures based on calculations and customer feedback, may vary from case to case basis.

## TECHNICAL SPECIFICATIONS

Supply voltage : 230 VAC/ VAC, 50Hz ±15%  
 Indications : Power, Timer, Energy Saving  
 Delay Timing : 3 minutes [approx]  
 O/p Ratings : 5KVA [20A], 7.5KVA[32A], 10KVA[44A]  
 Enclosure : ABS plastic 96X96X90mm  
 Mounting : Wall / Panel Mounting

Power Consumption : 5 VA (max.)  
 O/p. Volts adjust. : From Input - 40V Normally [190-230V]  
 Operating conditions : 5to 60° C upto 95% RH  
 MCB Ratings : 25A[5KVA], 32A[7.5KVA], 60A[10KVA]  
 Weight :  
 Panel Cutout : 92X92mm

## OPTIONALS

\*\* Hour Meter to Calculate Energy Savings

\*\*\* Voltmeter / Ammeter to check O/p. Voltage/Current

Manufactured by :  
 **Cogent Controls**

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Product improvement is a continuous process at Cogent Controls Data given in this publication is, therefore, subject to revision