



# TIS ENERGY SERVANT

10 Functions Controller

Data Sheet Rev 3.1

Model: ES-10F-CM



## OVERVIEW

The Energy Servant 10-Function is a ceiling sensor with an elegant design that includes a PIR motion sensor, light harvest sensor, relay outputs, digital input, temperature sensor, infrared emitter, and 32 logic and timer lines with great capabilities to ensure the most efficient energy use and remote home theater appliances control.

### KEY BENEFITS

- + Control media appliances such as TV, DVD, TV Box
- + Control split air conditioning
- + Energy optimization
- + Room temperature control
- + Compatible with any 3rd party device.
- + Home security control
- + Configurable with TIS Remote Control

### KEY FEATURES

- ★ Ceiling mount, 360-degree infrared control
- ★ Contain more than 1000 brand infrared library database
- ★ Can save 200 more infrared codes via TIS IR learner
- ★ PIR Motion sensor, Lux meter for light intensity
- ★ 32 logic lines of energy saving
- ★ 2 digital inputs for automation and security use
- ★ Works with TIS-BUS Protocol



BARCODE (UPC-A)



6 58921 79865 2

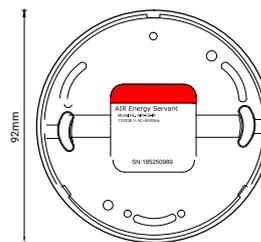
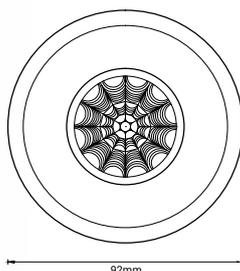
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PRODUCT SPECIFICATIONS		
<b>Input</b>	PIR motion sensor Digital input. Open / Close Length of connected wire to DI Light intensity sensor IR receiver Temp sensor	Dual element pyro-electric ceramic 2 Channels < 350 meter 0 – 8000 Lux meter TIS infrared code receiver Temp resistance sensor
<b>Output</b>	Infrared transmitters DC Output	6 probes to cover 360 degree 12 V DC / 50 mA
<b>TIS Bus</b>	Number of devices on 1 line Bus voltage Current consumption	Max. 64 12-32 V DC <15 mA / 24 V DC
<b>PIR Detection</b>	PIR range PIR detection angle	4-6 meters (installation height 2.6 - 3 meters) 110° from the ceiling down
<b>Protection</b>	Protection	Reverse Polarity Protection
<b>Reaction time</b>		approx. 20ms
<b>Mounting</b>	Celling mount	2 screws on the base of the sensor
<b>Connection terminal</b>	Data / bus	terminal connector 0,25...2mm2
<b>Operating and display elements</b>	Programming button Indicator LED TIS bus Upgrading	For assignment of the physical address Blue or Red LED (optional) TIS Protocol messages and commands 1 X mini USB for up to date upgrading
<b>Functions</b>	Logic/ Timers IR Code memory / Flags Security Function IR receiver	32 Timers and Logic conditions 250 IR code memory & flags Away, Night, Day, fire alarm setting 8 buttons function
<b>Weight</b>	Without packaging	0.06 KG
<b>Dimensions</b>	Width × length × height	92mm × 92mm × 39 mm
<b>Housing</b>	Materials Casing color Base color IR window cover IP rating	ABS anti fire / PC anti fire Gray White Black Transparent White IP 20
<b>Temperature range</b>	Operation Storage Transport	-10...60°C -20...50°C -25...75°C
<b>Air humidity</b>		<85% non-condensing



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