



FEATURES PROGRAMMABLE DURING COMMISSIONING

One of the key benefits of the Smart based lighting control systems is the ability to program every sensor differently. Each luminaire or group can be tailored to suit its own very specific local requirements.

The main programmable features are:

“NO PRESENCE” DELAY

After a delay, which is variable between 30 seconds and 10 hours, the luminaires will go to the area vacant condition. Factory default setting - 10 minutes.

AREA VACANT CONDITION

Off or level from 1 to 100% (some ballasts limited to 10%). Factory default setting is off.

SECURITY SETTING DELAY

This allows an interim delay (30 seconds to 10 hour, or continuous) at a selected level following no presence detection and at the area vacant condition. Factory default setting - disabled.

For example, all luminaires in a building may be set to turn off except for exit routes which will reduce to 50% for a further one hour (assuming no presence detected). Alternatively, as a security feature, perhaps one in twenty luminaires may be kept on continuously at any chosen level.

PIR SENSITIVITY

May be adjusted to suit conditions.

LIGHT LEVEL SETTING *(Smart and Smart LCM only)*

Completely variable or may be set to maximum continuously.

LIGHTS ON SETTING *(Smart External only)*

Completely variable. Factory setting approximately 70lux.

BRIGHT OUT SETTING

Luminaires will be turned off automatically (particularly those nearest the window) if excess daylight is present for more than 10 minutes. Luminaires can also be programmed to simply dim and not turn off.

AUTOMATIC SETTING RETENTION

If lighting is manually overridden, e.g. for a presentation, then following a subsequent area vacant turn off, the system will revert back to automatic mode. It may alternatively be set to retain manually overridden settings.

MINIMUM LAMP LEVEL

Can be set to restrict dimming range for certain sensitive lamp types (between 1 and 100%)

MAXIMUM LAMP LEVEL *(Smart External only)*

The maximum lamp level can be set to local conditions. Factory setting 100%.

DSI/DALI

The system can be set to operate DSI (as standard) or DALI control gear.

SCENE PARAMETERS *(Smart only)*

Three scene parameters can be set for each luminaire. For each scene, the lamps can be set to operate from off through 1% to 100%. Alternatively, the light level of the working plane can be changed from its standard commissioned setting in a range from 10% through to 200%.

PIR MODE *(Smart only)*

The PIR can be set to presence or absence detection (requires a manual command to turn the luminaires on).

Infra-red programming and information retrieval

A range of parameters can be programmed allowing Smart to be used in a wide range of applications from schools and hospitals to warehouses and factories

Each Smart Sensor can be individually programmed ensuring that the lighting installation is tailored not only to meet the needs of the users but to also maximise energy savings.

The lighting system can be fine-tuned by using a Smart Programmer to read the settings from a luminaire, make adjustments, and transmit back to the luminaire.

Factory default settings can be adjusted when required, so the lighting may be reconfigured if the use of an area changes.

Monitoring information can be read back from each luminaire independently using the Smart Programmer providing valuable maintenance and energy usage data.

Whilst Thorlux Smart Systems are designed to operate with factory default settings “straight from the box” Thorlux strongly recommends on site commissioning to ensure optimum energy saving and user convenience.



Smart Programmer

POWER MONITORING CAPABILITY

(Smart and Smart LCM only)

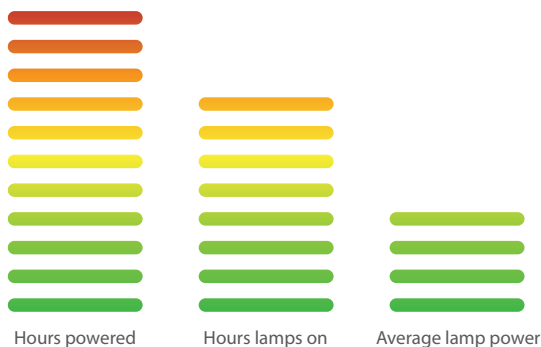
Smart Sensors monitor and record certain operating parameters which can be retrieved for analysis to provide maintenance and energy usage information.

The Smart System will provide data for individual luminaires and Smart LCM for groups of luminaires.

Non resettable Total time connected to mains (hours)

Resettable * Time connected to mains (hours)
Lamp switched on time (hours)
Lamp on average power level (%)

* 4500 hours maximum recording time (lamp on)



RANGE

DESCRIPTION	CAT. No.	APPROX. kg
Smart Programmer	LCM 10777B	0.4
Smart External Programmer	SC 14228	0.4