

# once ANIMAL LIGHTING

## AgriShift® Controllers - Controller and Dimmer Units



Controller



Dimmer

- *Precise and consistent*
- *Improves animal welfare*
- *Fully automatic control or manual options*
- *Schedule up to 500 days divided into 20 periods*
- *Optional remote control with standard 0-10V bus*
- *Program timed or temporary dimming override*
- *Asymmetric program capability*
- *Incremental dimming*



**AgriShift®** lighting systems “shift” spectrum and intensity, meeting the individual needs of your animals<sup>1</sup>.



A **Built For Your Barn®** design uses materials that withstand harsh barn environments for years to come.

## Animal-Centric Lighting Systems

The AgriShift® Controller and Dimmer provides full potential to any ONCE® lighting fixture. They offer smooth dimming solutions that can easily be controlled manually with the front panel controls or remotely with a 0-10 VDC control signal.

The integrated Dimmer is used alongside the Controller. Together they offer several advanced features giving added flexibility while addressing the complex needs of today's modern agriculture facilities.

### Dimming Enhances Flock Performance

Because animals are sensitive to different light intensities and colors of the light spectrum, performance and health can be improved simply by controlling it. Close attention to photoperiods and elimination of lighting anomalies have been shown to increase production outputs while reducing stress and negative effects on animals, enhancing overall flock performance.

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# Light in Commercial Agriculture Facilities

Artificial lighting programs must be applied with a thorough understanding of an animal's physiological response to light and an incorporation of various characteristics that are sensitive to the way they interact with such lighting programs. ONCE® proprietary SIAM Technology® applies three key aspects we believe best improves animal welfare and optimizes production through artificial lighting for commercial agricultural facilities:

1. **Spectrum:** The whole range of visible light with respect to its wavelength or frequency
2. **Irradiance:** The power of electromagnetic radiation per unit area (radiative flux) on a surface
3. **Modulation:** Transitioning from one level to another

When using the AgriShift® Controller or Dimmer to follow a ONCE® recommended lighting program, you're providing your animal with smooth dimming and an optimized light spectrum at designated light levels throughout the day/production cycle. Not only are you maximizing your overall return on investment, you'll also experience reduced mortality, improved feed conversion, faster weight gain, reduced stress and other beneficial welfare and productivity enhancements in your animal.

## AgriShift® Controller Specifications

Output Current	4 amps (120V) / 8 amps (230V) maximum resistive load (each channel)
Output Power	1000W max per channel
Operating Voltage	120 VAC or 230 VAC
Frequency	120 V / 50/60 Hz 230 V - Frequency Dependent - 50 or 60 Hz
Analog Input	0-10 VDC input resistance: 13k 0-10 VDC source, Maximum load: 10mA
Safety	ETL Listed, Conforms to UL Std. 508A Certified to CAN /CSA C22.2 No. 14

## AgriShift® Controller and Slave Dimmer Dimensions

Dimensions	221mm X 269mm X 139mm 8.7" X 10.6" X 5.5"
Temperature	0°C to 40°C / 32°F to 104°F
Storage	-15°C to 50°C / 5°F to 122°F
Relative Humidity	5 to 90% without condensation

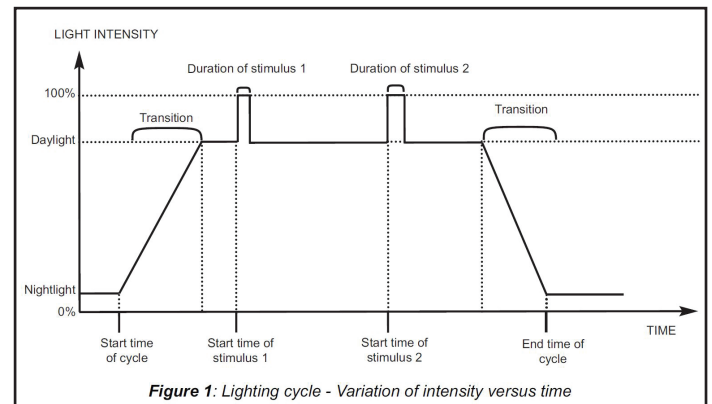


Figure 1: Lighting cycle - Variation of intensity versus time

## Recommended Maximum Fixtures per Channel

AgriShift® Fixtures	120V	230V
AgriShift® EL (3W)	330	330
AgriShift® FL (3W)	330	330
AgriShift® TLL (3.5W)	280	280
AgriShift® TLP (3.5W)	280	280
AgriShift® JLL (8W)	125	125
AgriShift® JLP (8W)	125	125
AgriShift® MLM-R (8W)	125	125
AgriShift® TLUS (8W)	125	125
AgriShift® MLM-B (10W)	100	100
AgriShift® MLM-G (10W)	100	100
AgriShift® MLM-S (10W)	100	100
AgriShift® MLB (12W)	83	83
AgriShift® MLL (12W)	83	83
AgriShift® MLS (14W)	70	70

## Ordering Information

	SKU
AgriShift® Controller 120V	1000000479
AgriShift® Dimmer 120V	1000000464
AgriShift® Controller 240V-50Hz	1000000912
AgriShift® Controller 240V-60Hz	1000000863