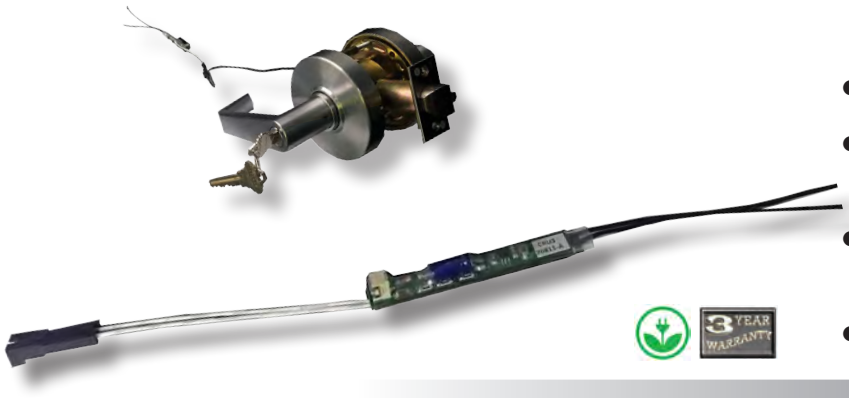

CRU3

- Increased Solenoid Life
- Improve operating efficiency for continuous duty applications
- Significant energy $$ savings when used in continuous duty applications
- Smaller footprint vs CRU2

The CRU3 (current reduction module) is designed to reduce the holding current in operating conditions where the solenoid driven locking hardware remains energized for a long period of time. These typically include fail-safe conditions or fail-secure conditions on an "unlock" cycle. Often when solenoid locksets are energized for long periods of time the locks become very warm to the touch due to overheating the solenoid. This can occur due to a power supply operating at a higher voltage than the acceptable voltage operating range of the solenoid. When this occurs the life of the solenoid is likely shortened by years and operating efficiency of the lock is reduced. With the addition of the CRU3 the locking device operates cool and the energy consumption is greatly reduced.

SPECIFICATIONS

Voltage:
- Voltage range – 12 to 30 VDC
- Maximum Amperage - 2A
- Non-polarized input/output
- 50% power setting using 24VDC PS w/ a 12V lock.

Product Details:
- Board Dim: 2 3/8" x 3/8": x 3/8"
- Weight: .1 lb

Recommended Locking Hardware:
- All Mortise & Cylindrical Locks
- All Exit Device trim

Features:
- Reduced flash back spark through smart filtering to improve relay life
- Reduced circuit voltage loss due to more effecient components vs CRU2
- Operate a 12VDC solenoid w/ 24VDC power supply
- 3 Year Warranty

CRU3 Adjustment Video

Scan or Click here

How to Order

Part #	Easy Order #	Description
CRU3	70811	Current Reduction Unit

CRU3 Can Only Be Used W/ DC Power Sources

Make sure the power supply being used is supplying DC voltage within 12-30VDC operating range of the locking device is less than or equal to the output of the power supply.

Installation Instructions

12V lock to 12 VDC Power source or 24V lock to 24 VDC Power source

1. Connect the two white wires of the CRU3 to the locking hardware (non-polarized). Connect the black wires of the CRU3 to the wires leading to the power supply (non-polarized). *If plug on the CRU3 does not match the plug on the locking device cut off plug and hardwire.*

12V lock to 24 VDC Power source (50% Mode)

1. With nothing connected to the unit turn the potentiometer all the way clockwise (max power).
2. Apply power for at least 3 seconds them remove power.
3. Connect the two white wires of the CRU3 to the locking hardware (non-polarized). Connect the black wires of the CRU3 to the wires leading to the power supply (non-polarized). *If plug on the CRU3 does not match the plug on the locking device cut off plug and hardwire.*

FINE TUNING TO FIND THE MOST EFFICIENT POINT

NOTE: The CRU3 when plugged will run your solenoid effciently without any adjustment. For longer wires runs or to find the most efficient point use fine tuning.

1. Locate small adjustment screw located at the end of the unit (Fig. 1).
2. Energize the lock and turn the potentiometer counterclockwise, least power.
3. You will hear the solenoid dropping out and re-acutate every 4 seconds. Slowly dial the potentiometer 10 degrees at a time until you hear the solenoid re-actuate and hold. Give the potentiometer another approx 5 degree turn and you've found its effecient point.

Change back to Standard Mode

1. With nothing connected to the unit turn the potentiometer all the way counter-clockwise (least power).
2. Apply power for at least 3 seconds them remove power.

Wiring Diagram Fig. 1