

## Platform Lift Interlock System



*Vehicle interlock system for commercial type FMVSS 403 platform lifts installed on Ford E-Series vehicles.*

The InPower ITM-115A interlock system provides the required FMVSS 403 platform lift interlocks for 2005 - 2007 Ford E-Series vehicles. The interlock system consists of a control module and interface wiring harness. Its interface wiring harness includes “plug and play” cables that connect directly to the Ford OEM chassis harness. The control module is a non-microprocessor design that uses robust solid state logic devices to provide an extremely high level of reliability. A key feature of the interface system is that it includes two separate inputs for the lift stowed sensor – a ground-true input and a +12 volt-true input. Its lift enable output is rated for +12 volts @ 8 amps. These features make the system directly compatible with the platform lifts manufactured by Braun, Ricon and Maxon. Another feature is its lift door interface, which includes an input for the door switch and a flashing output rated at +12 volts @ 8 amps that is activated when the door is open or ajar.

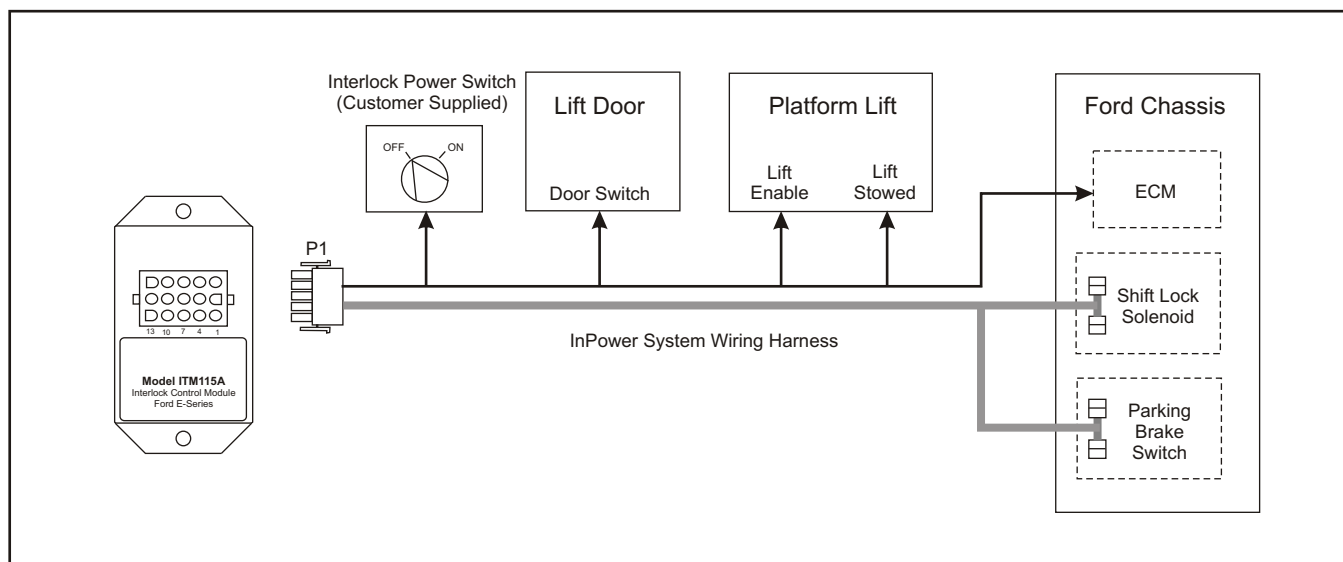
### Key Features

- Designed for 2005 - 2007 Ford E-Series
- Complies with FMVSS 403
- 100% Solid State Construction
- Direct Interface to Braun, Ricon & Maxon Lifts
- Dual lift-stowed inputs (ground & +12 volt activated)
- “Plug and Play” Chassis Interface Harness
- Lift door open/ajar power output (12V @ 8 amps)
- Small Size for Under Dash Installation

The interlock system sequence of operation is as follows:

- Step 1 - With interlock powered on, place the transmission in Park.
- Step 2 - Set the parking brake.
- Step 3 - Open the lift door. When opened, the shift lock will be set to prevent the transmission from being taken out of Park, and the Lift Enable will be set to allow operation of the platform lift. The Lift Door Open light, if installed, will operate.
- Step 4 - The platform lift may now be operated. Note - During the Lift Enable sequence, if the parking brake is released the Lift Enable will be deactivated, preventing lift operation.
- Step 5 - When the lift cycle is complete, return the lift to its fully stowed position.
- Step 6 - Close the lift door.
- Step 7 - Release the parking brake. When released, the shift lock will be automatically released.
- Step 8 - The cycle is now complete and the shifter can be taken out of Park.

### System Diagram



# ITM-115A Wheel Chair Lift Interlock

## Specifications

### Module Inputs

Power Input:	+8 to 16 Vdc @ 16 amps
Ground:	Supplied from shift lock solenoid Tee-cable
Shift Selector "Park" Position:	
Park1:	Ground in Park
Park2:	Ground in Park
Lift Door Switch:	Ground when door is open/ajar
Lift Fully Stowed A:	+12 volts when lift in fully stowed position
Lift Fully Stowed B:	Ground when lift in fully stowed position
Parking Brake Switch:	Ground when parking brake applied

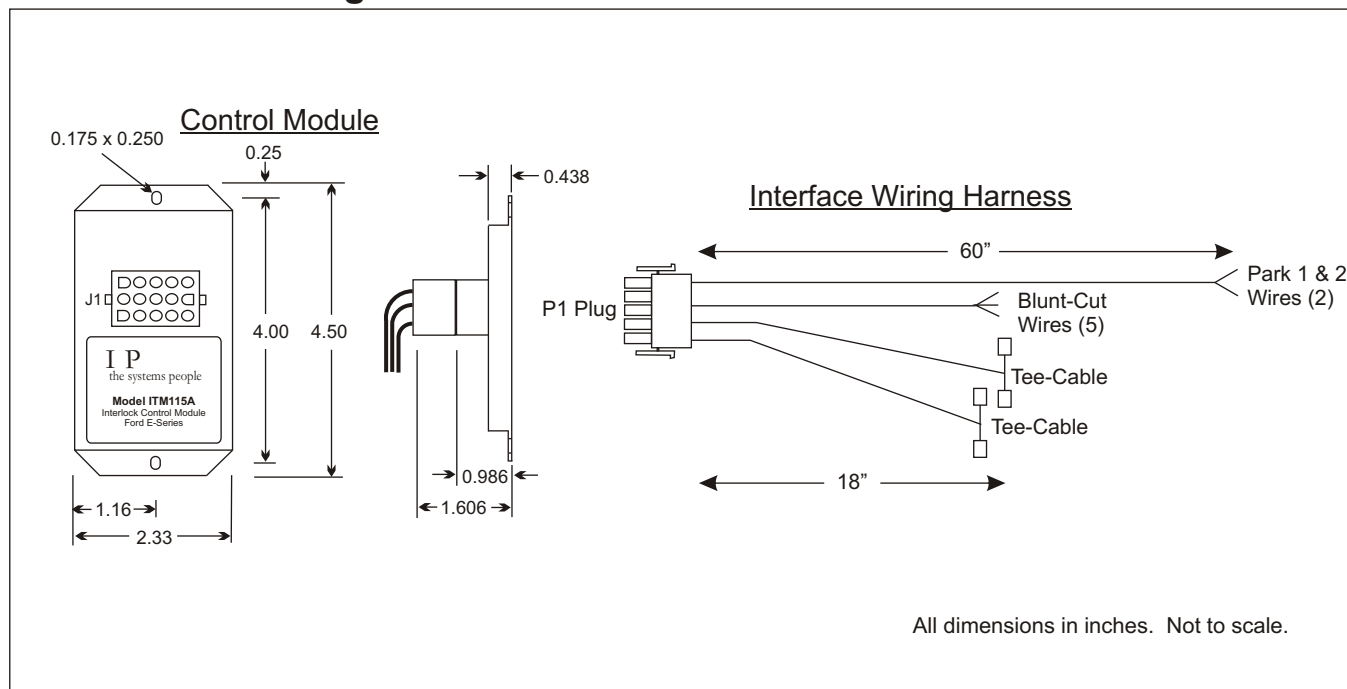
### Module Outputs

Shift Lock Solenoid:	Normally closed solid state relay. Opens to lock in Park position
Enable Lift:	+12 Volts @ 8 amps to allow platform lift operation
Door Open Remote Lamp:	+12 Volts @ 8 amps when lift door is open/ajar

### Mechanical

Weight:	0.17 lbs.
Operating Temperature:	-40° C to +85° C
Dimensions:	2.16" H x 4.35" L x 0.95" D

## Mechanical Drawing



**InPOWER LLC**

3555 Africa Road  
Galena, Ohio 43021

Tel 740-548-0965

Fax 740-548-2302

www.InPowerDirect.com

**Offered by:**

PDS-55A 020107

© Copyright 2007 InPOWER LLC

Specifications subject to change without notice.