

FLEXPOWER® APPLICATION NOTE AN-14 KEYSCAN™ ACCESS POWER

LIFESAFETY POWER KCLASS POWER SYSTEM OVERVIEW

Dual voltage power management system provides both 16VAC and 12 or 24VDC to power a Keyscan access control system and locks (strikes or maglocks). Two 8 output power limited power distribution boards are provided for the dual AC input required by Keyscan. One 8 output DC power distribution board provides lock circuit and auxiliary power fused at 3A per zone. Fire alarm interface is available on an individual output basis for control of egress locks, if required. The power distribution modules are power limited for use with the Keyscan panels.

This unit is a typical example of many Listed configurations that may be generated within the FlexPower system.

FP075 Power Supply (Set to 12V or 24VDC)

- Provides 12V@6A or 24V@3A of lock power in this system
- Other configurations include FP0150 or FP0250 for more lock power

16VAC Transformer

 Low Voltage, Dual Winding
Dual winding and power limited distribution meet the Keyscan input voltage and power limited requirement without the need for individual Class 2 transformers

any Listed configurations that may be generated within the Fle

DC Power Distribution

- Provides eight individually protected outputs (fused) for connection to access control lock control relays
- Egress locks and additional outputs may be split as desired *Typical is one output dedicated to egress locks and one output or more dedicated to each access panel controlling internal locks*

AC Power Distribution

- Provides two Class 2 power limited outputs for each Keyscan panel used, power limited to 2.5A
- One transformer can power two or three C8000 panels depending on configuration

DC POWER SUPPLY FEATURES

- Microprocessor dual rate charging restores battery sets up to 40 Ah
- Multiple outputs for system power, direct lock control and accessory power distribution modules
- Fire alarm interface for egress lock control (FAI)
- Comprehensive fault detection and reporting including optional earth ground and battery presence
- · Programmable AC and System fault delays
- Optional network connectivity for offsite diagnostics, battery management, and trouble / service email alerts
- ATM automotive style fuses

> Power Management & Reporting

 NettLink network module connects power supply to a LAN/WAN network for remote power supply programming and diagnostics. Monitors and reports system status, battery state, generates email or SNMP notification of system trouble or time to service alert.

AC POWER FEATURES

- 200VA low voltage transformer
- Dual 16VAC isolated outputs are individually protected
- Each output is rated for 2.5A Class 2, Power limited and provides visual indication of output voltage

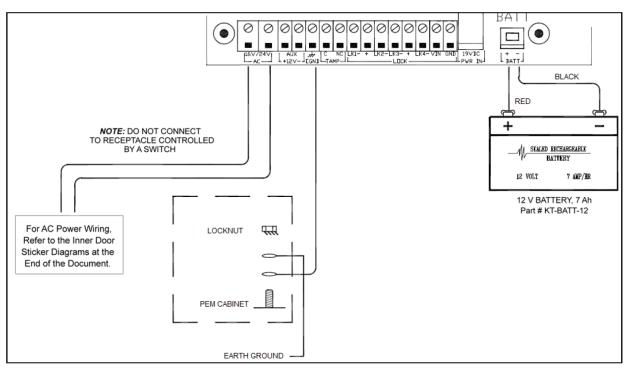
ORDERING

The specific LifeSafety Power KClass part number on this application note is

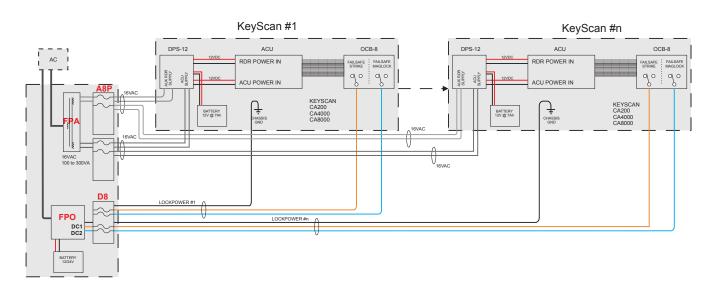
Model No.		Mechanical Info
KS75-D8E2	75W lock power, 8 out fused	Size: 16" x 20" x 4.5" Weight: 20 lb.

Other LifeSafety Power KClass Model Numbers for Keyscan		
KS75-D8E2	75W lock power, 8 out fused	
KS150-D8E2	150W lock power, 8 out fused	
KS250-D8E2	250W lock power, 8 out fused	
KS75-D8PE2	75W lock power, 8 out Class 2 power limited	
KS150-D8PE2	150W lock power, 8 out Class 2 power limited	
KS250-D8PE2	250W lock power, 8 out Class 2 power limited	

TRADITIONAL POWER METHOD



FlexPower - Powers Multiple Panels With Common AC Transformer and Distributed DC Lock Power



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