



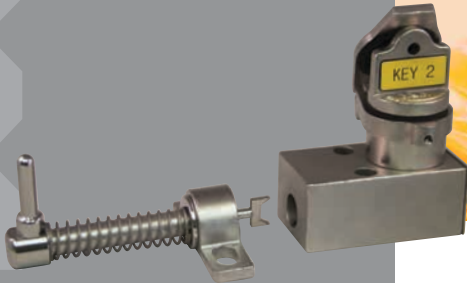
# SWITCHGEAR INTERLOCK APPLICATIONS

## DATA SHEET

### ARC FLASH REDUCTION

**POWER DISTRIBUTION**  
**POWER GENERATION**  
**POWER TRANSMISSION**

Work **SAFE** For **LIFE**™



**Type DM Access Interlock  
with Spring Bolt**



**Type PPS  
Interlock**

**Quick-Trip™**



Arc flash hazard protection of personnel working on or near energized electrical equipment is crucial. The 2011 NEC standard and the 2014 NEC, Article 240.87, requires arc energy reduction for 1200A or higher rated circuit breakers. An acceptable method to reduce arc energy is a maintenance switch, AC-PRO® Quick-Trip® from Utility Relay Company, which adds a switchable instantaneous trip function to the AC-PRO trip unit with an adjustable pick-up setting. This can reduce the arc flash hazard by reducing the fault interruption time.

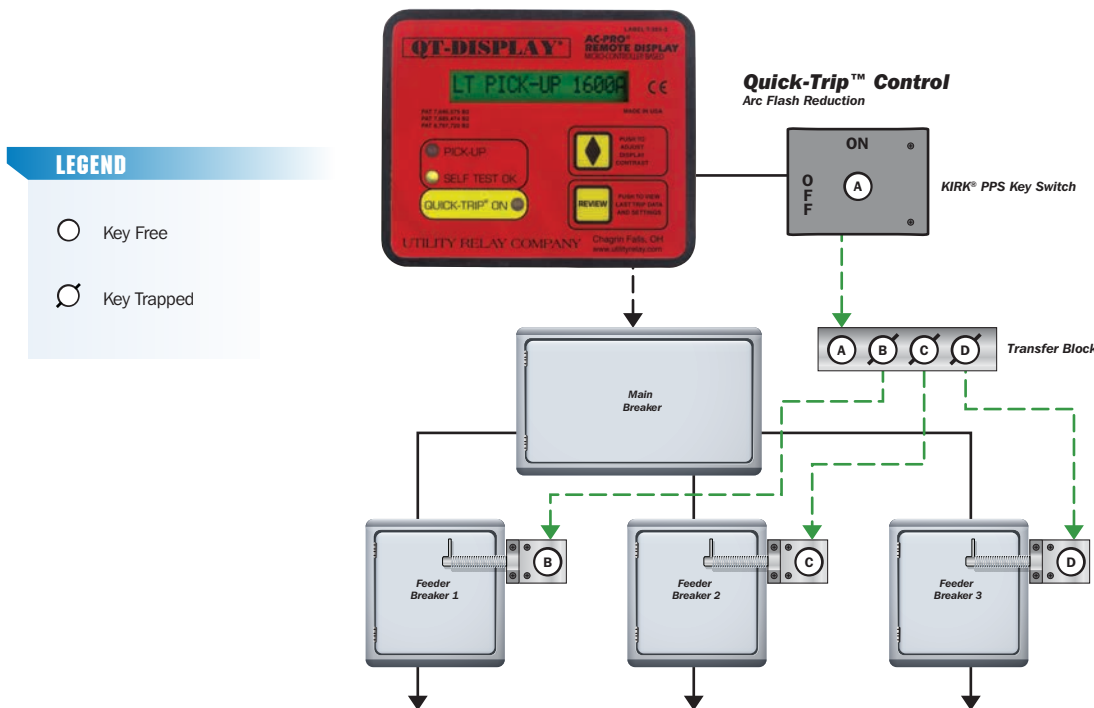
Combining Quick-Trip with KIRK® interlocks assures the predetermined sequence of arc flash energy reduction procedures are followed. Personnel can operate at a lower Risk Hazard Category and Personnel Protective Equipment requirements according to NFPA 70E.

A typical arc flash reduction system using KIRK® interlocks and URCs Quick Trip® unit is detailed on the reverse side.

**PROCESS SAFETY CONTROL**

[www.kirkkey.com](http://www.kirkkey.com)

### INTERLOCKING LOGIC



The interlocking logic shown illustrates a typical sequence for racking a feeder breaker.  
**Note:** Personnel safety is improved by assuring the use of Quick-Trip™ during maintenance.

### OPERATION

#### INITIAL SYSTEM STATUS:

Main breaker and feeder breakers are energized. Panel doors are locked closed and Quick-Trip™ Unit is disengaged. Key A is trapped in KIRK® PPS Interlock.

#### SYSTEM OPERATION:

- 1) Turn Quick-Trip to the ON position at the main breaker by turning and releasing Key A
- 2) Insert Key A in transfer interlock to release keys B, C and D. Key A is now trapped.
- 3) Use Keys B, C and D to unlock the three feeder compartment door interlocks.
- 4) Keys B, C and D are trapped in the door interlock when the compartment door is opened.
- 5) Rack the feeder breaker in or out.
- 6) Reverse the sequence to turn the Quick-Trip to the OFF position at the main breaker.

**INTERLOCKING SEQUENCES CAN BE DESIGNED TO SUIT ANY OPERATIONAL OR PROCESS REQUIREMENTS**

**URC** Utility Relay Company

**CALL TOLL FREE**  
**888.289.2864**

For More information,  
 visit our website  
[www.utilityrelay.com](http://www.utilityrelay.com)

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