



# LIGHTING CONTROLS

## KELE AUTOPHOS® RETROFIT KIT APK

### DESCRIPTION

The **APK** AUTOPHOS® Retrofit Kits convert stand alone lighting panels to integrated lighting controls using BACnet MS/TP and JCI-N2 communications. It is the perfect choice for upgrading lighting control panels while reusing the existing switches, panel relays, E and high voltage wiring. The **APK** is an ideal low-cost alternative to the costly replacement of older lighting panels.

### FEATURES

- Contains all the features of an AUTOPHOS® programmable lighting panel
- Built-in JCI-N2 and BACnet MS/TP Native interface
- Provides a low-cost solution for upgrading existing lighting panels
- Interfaces to existing relays from GE, Douglas, Touch Plate, MicroLite, Reliant, Horton, Lithonia, and others
- Reuses high-voltage wiring, low-voltage switch wiring, enclosure and 24 VAC transformer

AUTOPHOS®



APK3



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LIGHTING CONTROLS

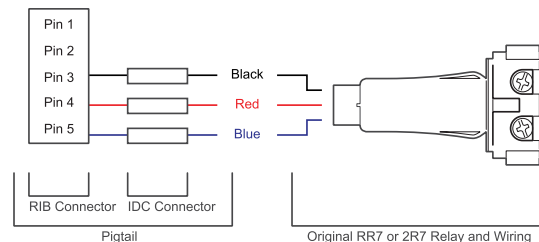
### COMPATIBILITY

<b>APK2</b>	Douglas WR-6161/6162/69172/6221, ILC 2PC
<b>APK3</b>	GE RR7, Horton RR7, Wattstopper RR7, Lithonia RR7, ILC 2R7
<b>APK5</b>	GE RR9, Horton RR9, WattStopper RR9, Lithonia RR9, ILC 2R9

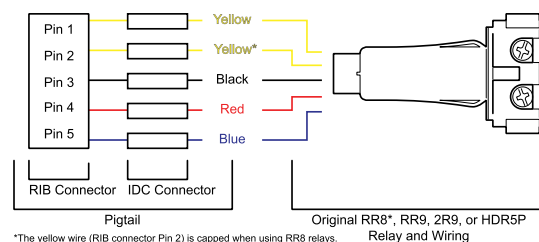
### SPECIFICATIONS

<b>Supply Voltage</b>	24 VAC ±10%
<b>Supply Frequency</b>	50/ 60 Hz
<b>Supply VA</b>	30 VA
<b>Analog Input</b>	6; 0-5 VAC light level sensor
<b>Digital Switch Inputs</b>	24 dry contact, 24 2-wire or 12 3-wire momentary or maintained
<b>Relay Outputs</b>	Relay interface boards to existing control relays
<b>Wire Type</b>	
<b>Power Input</b>	18 AWG min solid or stranded
<b>Input</b>	18 AWG solid or stranded, non twisted, unshielded
<b>Communication Ports</b>	Network ready, two-wire RS-485
<b>Communication Protocol</b>	BACnet/ MSTP, JCI N2
<b>Operating Temperature</b>	32° to 125°F (0° to 50°C)
<b>Operating Humidity</b>	10% to 95% RH non-condensing
<b>Warranty</b>	1 year

### WIRING PIGTAILS FOR APK3 AND APK5 (optional)



APK3



APK5

**NOTE:** APK2 (2 wire) has terminal block connections and pigtails are not required.



### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>APK2</b>	AUTOPHOS KIT BACnet,N2, 32 TWO-WIRE RELAYS
<b>APK3</b>	AUTOPHOS KIT BACnet,N2, 32 THREE-WIRE RELAYS
<b>APK5</b>	AUTOPHOS KIT BACnet,N2, 32 FIVE-WIRE RELAYS

ACCESSORIES	
<b>APK2X</b>	Expansion kit to 60 relay outputs for APK2
<b>APK3X</b>	Expansion kit to 60 relay outputs for APK3
<b>APK5X</b>	Expansion kit to 60 relay outputs for APK5
<b>APKPT3</b>	12" 3-wire pigtail and IDC wire connectors for use with APK3
<b>APKPT5</b>	12" 5-wire pigtail and IDC wire connectors for use with APK5
<b>APUSB-TK</b>	Configuration software for Autophos® series and Tech Cable

RELATED PRODUCTS		PAGE
<b>RR-7</b>	Three-wire low voltage leads	<b>589</b>
<b>RR-9</b>	Five-wire low voltage leads with isolated pilot auxiliary contact	<b>589</b>

### DESCRIPTION

The **APUSB-TK** (formerly Apsoft or LP-PK) is configuration software required for AUTOPHOS® lighting and retrofit panels. The software is used to assign Inputs to Outputs utilizing a grouping method. Inputs consists of switches, occupancy sensors, light level sensors, etc, and are configured with various settings. Outputs consists of relay loads. Together the Inputs and Outputs are configured and assigned control of a group. Groups are than identified by the BMS and treated as control points.

### REQUIREMENTS

- **IBM compatible Pentium or newer**
- **2 MB or more of RAM**
- **Mouse and unused serial/USB port**
- **1M free hard drive space**
- **CD drive**
- **Windows NT, 2000, or higher**

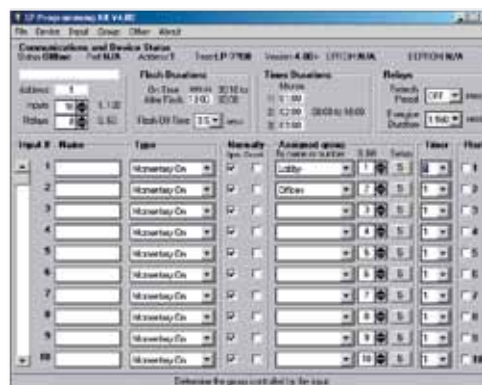
### FEATURES

- **Easy-to-use, Windows-based programmers tool**
- **CD and USB cable provided**
- **Direct connect PC to lighting panel**
- **Used to assign panel address and configure inputs/ outputs**
- **Reads, writes, and stores lighting controller program**

### AUTOPHOS® SET-UP SOFTWARE

**APUSB-TK**

**AUTOPHOS®**



**AUTOPHOS® configuration kit includes:**

- **USB cable for computer connection**
- **CD configuration software**

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<b>APUSB-TK</b>	Configuration software for Autophos® series and Tech Cable