



# KPD SERIES PRESS AUTOMATION CONTROLLER

■ **Compact controller with all the bells and whistles of the high end systems for a fraction of the price!**

## Features

*6 Programmable Limit Switches with 2 programmable dwells per channel. Includes timed output and speed compensation capabilities.*

*4 programmable die protection inputs. Each input can be individually programmed for events such as part out, short feed, progression, stock buckle and more.*

*Motion Detection*

*Brake Monitoring*

*50 Job Storage*

*Password protection*

*Stroke, Batch, Total and Tool Counters*

*.75A @ 24 Vdc power supply to feed sensors*

*4 line vacuum fluorescent display with simple to follow plain English programming.*

*Controller offered as a panel mount or in a Nema 12 enclosure.*

*Use with a standard block style resolver or with a Cam / resolver combination unit.*

*Options include solid state outputs, sensor interface blocks, larger power supplies and more.*



*KPD Controller mounted in a Nema 12 enclosure*



*Block Style Resolver and Cam / Resolver combination unit*

# KPD SERIES PRESS AUTOMATION CONTROLLER

The KPD Series Press Automation Controller is a low cost solution for your press automation requirements. This system offers many features customers desire in coil fed press applications.

## Capabilities

In today's competitive marketplace the ability to do more with less is a necessity. The KPD controller can automatically control and monitor many of the press automation functions required in coil fed operations.

The **programmable limit switches** can be used to **initiate the feed and pilot functions of the feed, fire the air blow off valve, activate the strip lubricator as well as feed signals to tonnage monitors or any other device on the press requiring timing signals.**

**Built in die protection** follows the strip progression through the die monitoring events such as **long and short feed, progression, part eject, end of stock, stock buckle** and much more. The 4 sensor inputs have **individually programmed windows that allow precise monitoring of where events occur within the stroke.**

**Counters** can be used to automatically stop the press when the pre-set count value has been reached. A **batch counter** can be used to stop the press when the parts bin is full and the **total counter** can be used to stop the press when the job run is finished. These counters can be set up such that they only count a part if the press has cycled and the part eject sensor has seen a clean cycle. This eliminates part counts on coil change.

**Stroke and Tool** counters are a useful preventative maintenance tool.

The KPD includes **50 job storage**. All setup parameters such as **programmable limit switch, die protection and counter settings** are stored for each job. **Copy job function** allows you to copy settings from one job to another for many tools with similar settings.

Also included in the KPD system is **motion detection**. The motion circuit checks the integrity of the coupling between the resolver (position sensor) and the press. **Brake monitoring** displays the stop time of the press each time the brake activates. A fault setting can be programmed to stop the press if the amount of stopping time exceeds the programmed value. **Password protection** locks out unauthorized personnel from accessing program data.

The KPD is offered in a panel mount configuration with the power supply mounted on a separate backplate or all components mounted in a Nema 12 enclosure. A block style resolver or Cam / resolver combination unit feed press position back to the controller. Many resolver to controller cable lengths are available.

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## Specifications

### **Controller Input power:**

24 VDC @ 500 mA (controller only)  
100-240 VAC 50-60 Hz (power supply)

### **Input current: Power Supply**

1.5A @ 115 VAC  
.75A @ 230 VAC

### **Die protection Inputs:**

10-30 VDC  
(Sink / Source) 1.5mA @  
10VDC, 3.8mA @ 30VDC

### **Environmental Conditions:**

Operating temperatures  
0-60 degrees C

### **Output relays:**

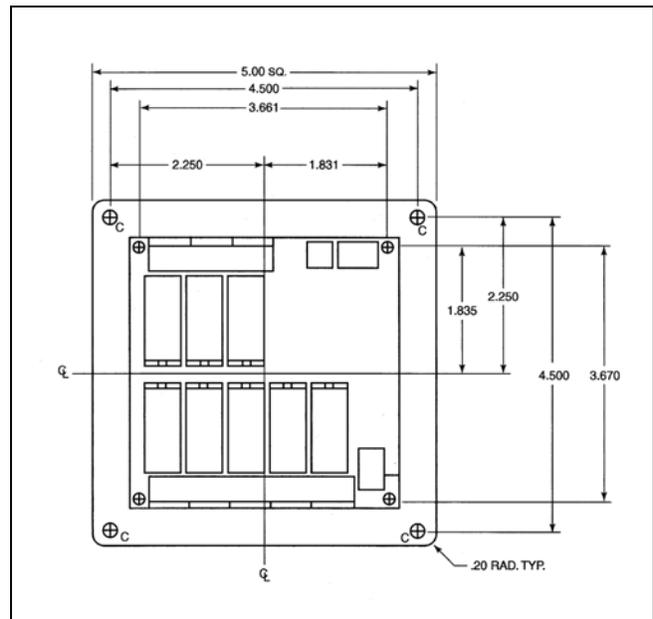
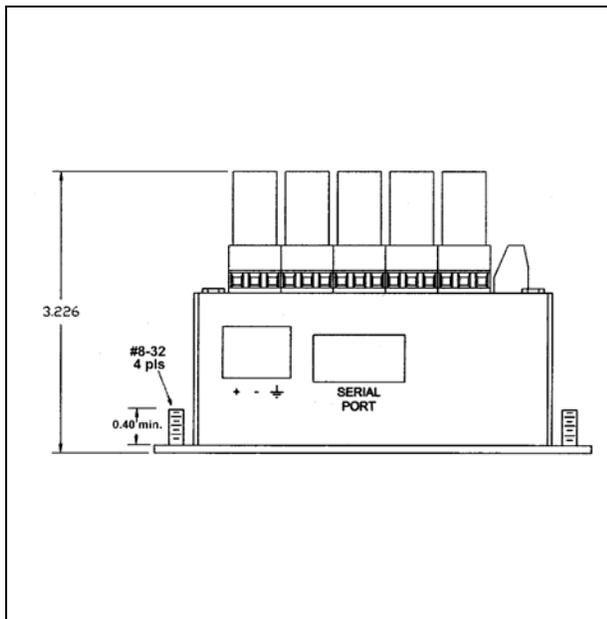
SPDT Mechanical type  
10A @ 250 VAC, 10A @ 30 VDC

### **Power for sensors:**

24VDC @ 1.5A

## **Dimensions:**

### *Controller Dimensions:*



### **Represented by:**

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