

**Erich Industries, Inc.**  
**Performance Products Division**  
**DOOR DYNAMICS® KO-300 PRODUCT DESCRIPTION**

**APPLICATION**

The DOOR DYNAMICS® Kwik-Op® KO-300 series door operator is a surface mounted pneumatic door opener. It is used for swing doors in Industrial, Institutional and Commercial applications. It is compatible with virtually all types of interior and exterior swing doors. Door panels from 2'-6" to 5'10" wide and weighing up to 300 pounds can be accommodated. One way, two way and two way bi-parting traffic patterns can be used by varying combinations of activators and orientations of actuators. Simultaneous operation of double doors is standard.

**DESCRIPTION**

The DOOR DYNAMICS® KO-300 series operator applies opening force to the door header by a pneumatic cylinder, actuator arm and a rubber wheel. There are only three minimally wearing bearing points for long life, there are no gears, clutches or motors required. The operator is attached to the door however the door can be operated manually at any time, without any harm to the opener mechanism or the electronic control box. Automatic operation is obtained through a wide number of activation devices. Because of the operator Ultra-Force™ bracket configuration and pneumatic system there is little risk of damage if the doors are activated and then struck with a load, or activated while the doors are locked or blocked in the open or closed positions.

**OPERATION**

Automatic door operation is accomplished when the open or initiate command is transmitted from the activation device to the control box. A wide variety of devices can be used to activate the doors including; wall switches, floor mats, motion or proximity sensors, touchless switches, infrared beams, remote radio control or any device that switches using dry contacts. A microprocessor based control board controls the hold open time and functionality of the doors. Hold open times can be set from 1-99 seconds by means of the control board and opening times can be adjusted from 1.5 to 5 seconds by changing air regulator pressure and air flow controls.

**MOUNTING**

The DOOR DYNAMICS® KO-300 series operator can be easily mounted to any conventional door frame header and the face of the door. Reinforcement of light gauge hollow metal jams may be required. Technical support is available by calling the factory at 1-800-882-5839.

**CONTROL BOX**

The control box is microprocessor based to insure maximum reliability and flexibility for the end user. The system has been designed to be easy to set up and operate. The control unit is designed to be connected to a constant power source of 110V AC 60HZ which powers the control box and a wide variety of activation devices with 24V AC power. The control box can be mounted up to 25 feet away from the operators (consult factory for greater distances). The only connection between the control box and the operators are flexible 1/4" diameter air lines. Air supply to the control box is accomplished through a single air line.

**SECURITY**

Connecting to security devices such as electric strikes, electromagnetic locks, card readers, keyed switches, time locks and push button key pads is easily accomplished. Consult factory to determine appropriate control panel configuration.

All standard DOOR DYNAMICS® control boxes are Underwriters Laboratories Certified for safety and reliability. Any questions about installation or programming can be quickly answered by calling the factory technical support staff at 1-800-882-5839.