



PosiDRIVE™

Features

- Reliable direct drive system reduces wear and stress
- Universal power system operates between 85-265 VAC, 50/60 Hz
- High speed operation:
 - 1.5 seconds with 10-12' (3-3.6m) arm
 - 6 seconds with 20' (6m) arm
- Left or right hand operation without additional hardware or special tools
- Unique fail-safe operation can be programmed for the gate to automatically raise or lock down on power failure
- Internally counterbalanced gate arm
- Obstacle detection system reverses the direction of travel if the arm encounters an obstruction
- DIN rail mounted components for easy service
- Status indicator lights
- UL/CSA approval and CE Mark pending

Secure Control

The Federal APD PosiDRIVE™ Security Gate is ideal for controlling roadway access to plant entrances, warehouse terminals, toll plazas, or any location where a high volume/high speed security gate is needed. The gate has a fast 1.5 to 6 second operation (depending on the gate arm length). The aluminum gate arm provides extra strength and rigidity, and uses tension springs to counterbalance the arm for perfect balance.

Reliable Direct Drive System

The PosiDRIVE™ Security Gate features a sinusoidal drive system to achieve fast operating times while reducing the speed when the gate arm approaches the end points of its travel. This reduces wear and stress on all mechanical components, including the motor.

Universal Design

The heart of the gate is the intelligent power system with its universal 24VDC power system that can accept any power input (from 85-265VAC, 50/60Hz). This low-voltage motor is the most energy-efficient in its class and only draws power when in operation.

The Security Gate provides a convertible gate arm system that can be changed from left hand to right hand drive without any additional hardware or special tools.

Perfect Balance

The counterbalancing system consists of a set of adjustable springs (two to four, depending on the gate arm length) that are entirely contained within the cabinet and have no components visible from the outside. Balance adjusters, used when shortening the arm or adding message signs, can be accomplished in the field without difficulty.

Low Maintenance

The Federal APD PosiDRIVE™ Security Gate is designed without belts, pulleys or limit switches. The unique design of this new gate gives you the freedom to schedule your routine maintenance only once a year.

Fail Safe Operation

The gate's fail-safe operation can be programmed for the gate arm to automatically raise or lock down on power failure. The auto-recovery-on-power-up feature can be enabled via a switch.



Freedom for Control

PosiDRIVE™

Specifications

Features

- 24V brushless DC motor with variable speeds accommodates arms from 10 – 20ft (3 - 6m)
 - Two to four tension springs are used to internally counterbalance the gate arm (depending on gate arm length). Spring tension is easily adjustable to fine tune the arm balance
 - Limited torque capacity: if over-torqued for six seconds, protective device shuts off motor and sends alarm message to the CPU
 - Direct drive mechanical linkage
 - Sinusoidal linkage provides fast operating times while reducing arm speed when approaching end-points of travel, reducing wear and stress on all mechanical components, including the motor
 - Removable enclosure cap allows for easy access to the gate mechanism
 - Universal power input for worldwide usage
 - Configurable for right-hand or left-hand drive operation without additional hardware
 - With 10' (3m) arm or less, cycle time is no more than 1.5 seconds
 - With 20" (6m) arm or less, cycle time is no more than 6 seconds
 - Obstruction sensing: reverses direction and returns to beginning of cycle, then tries again
 - Optional configuration: automatically rises upon power fail.
 - Capable of operating in ambient temperature of -32° F to 140° F (-36° C to 60° C)
 - Designed for superior air circulation to prevent excessive moisture buildup
- Modes of operation:
 - Pay Lane: Single direction lane with a single end input to raise arm and a reset to lower the arm
 - Free Lane: Single direction lane that utilizes two vehicle loop detector inputs, one to vend the gate and one to reset it
 - Pay/Free Lane: Dual direction lane that combines the Pay and Free types. In the Pay direction, a vend input is used to raise the gate arm. In the Free direction, the vending loop input raises the gate. The assumed direction of vehicle travel depends on which input is activated first.
 - Auto-Manual switch allows gate to be raised and lowered manually

Electrical

- Auto-selection of primary input power, 85-265VAC, 50/60Hz
- Controller operational power, 18-32VDC

Mechanical

- Gate enclosure constructed of .09" galvanized steel, finished in weather-resistant powder coat
- Arm constructed of hollow extruded aluminum, internally counterbalanced with two to four adjustable extension springs, depending on arm length
- Enclosure is 15" W x 42" H x 16" D (38cm W x 107cm H x 41cm D)
- Arm is 4 1/2" H x 2" D (11.5cm H x 5cm D), length depends on application



Freedom for Control

For more information
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