

Electrical Drive Data

Model	LST400
Classification	Safety/Process
Number of Wire Leads, Std.	Six, 22 g
Number of Wire Leads, Options	None
Cable or Wires, Length	18 inches, Cable if controller ordered, 10 feet
Cable/Wire Termination	MTA-100, AMP, P/N 643813-60, LEMO plug if controller ordered
Recommended Controller and Voltage Present	Capacitor Discharge 24 V, 24 V PWM, or our controllers
Shutter Winding Resistance	15 Ohms Nominal
Gravity Considerations	Symmetric Open/Close speed with base down More power needed for upside-down mounting
Typical Minimum Hold Open Voltage, Room Temperature	5 V
Typical Hold Open Power Dissipation as Heat	4 W
User Power Supply Notes	24 V, 1 A Rating, Surge Capacitor on output
User Drive Circuit, Cap Discharge	24 V, C=4700 microF, R=50 ohm, Use Flyback diode 1N4001
Nominal Winding Inductance	10 mH
User Drive Circuit, PWM Type	24 V for 50 ms, then drop to 5 V hold, Use N4001 Flyback
Color Codes and Function of Wires	Red, + to winding Black, - to winding Violet, Supply Regulated +5.0 VDC, 30 mA Blue, 5V Return and Sensor Ground Yellow, NO Output from Sensor, TTL (reads hi when shutter open) Orange, NC Output from Sensor, TTL (reads hi when shutter closed)

Read sensor outputs with reference to the blue ground wire. These outputs are totem-pole buffered TTL, seeking a load of ~10 K ohms. Typical output is 4 V. Do not try to draw more than about 5 mA from the Yellow or Orange Outputs, or the voltage will load down.

If an LST 400 was purchased without a controller, supplied with 18" leads, and later you require a controller, such as CX2450B and mating cable, attach wires of shutter to cable as shown below:

<i>LST400 Wire Color</i>	<i>CX2450B Cable Color</i>	<i>Function</i>
Red	White	+ Power to Winding
Black	Black	- Power to Winding
Violet	Red	+ 5.0 VDC
Blue	Blue	Return for Sensors
Yellow	Green	Sensor TTL Output
Orange	Brown/Or	Sensor TTL Output