

Electrical Drive Data

Model	LS055S3W8
Classification	Safety/Process
Number of Wire Leads, Std.	Two, 22 g
Number of Wire Leads, Options	Six, -K2 or -K2M Sensors
Cable or Wires, Length	Cable, 10 feet, PVC Jacket
Cable/Wire Termination	Flying leads, LEMO plug if controller ordered
Recommended Controller and Voltage Present	Cap Discharge 24-28 V, 24-28 V PWM, or our controllers
Shutter Winding Resistance	20 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	4-28 V, 2 A Rating, Surge Capacitor on output
User Drive Circuit, Cap Discharge	24-28 V, C=15,000 microF, R=50 ohm Use Flyback diode 1N4001
Nominal Winding Inductance	15 mH
User Drive Circuit, PWM Type	24-28 V for 50 ms, then drop to 10 V hold, Use N4001 Flyback
Color Codes and Function of Wires NO Options	White or Red, + to winding Black, - to winding
K2 Sensor option, TTL	Red, Supply Regulated +5.0 VDC, 30 mA Blue, 5V Return and Sensor Ground Green, NO Output from Sensor, TTL (reads hi when shutter open) Orange/Brown, 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 LS055S3W8 was purchased without a controller, supplied with cable/flying leads, and later you require a controller, such as CX2450B and mating cable, attach wires of shutter to cable as shown below:

<u>LS055S3W8 Wire Color</u>	<u>CX2450B Cable Color</u>	<u>Function</u>
White	White	+ Power to Winding
Black	Black	- Power to Winding
Red	Red	+ 5.0 VDC
Blue	Blue	Return for Sensors
Green	Green	Sensor TTL Output
Brown/Or	Brown/Or	Sensor TTL Output

Option –K2M, Mechanical Microswitches for Position Sensors:

<u>Shutter Wire Color</u>	<u>Function</u>
White	+ Power to Winding
Black	- Power to Winding
Red/Brown(Or) Pair	Open Switch, Reads Continuity when shutter Open
Blue/Green Pair	Closed Switch, Reads Continuity when Shutter Closed

Switches rated for 1 A at 24 VDC.