

HSLG OPERATOR INSTALLATION GUIDE

WIRING SPECIFICATIONS

1. Select from the chart at the bottom of this page corresponding to the model, voltage and horsepower rating of your operator.
2. The distance shown on the chart is measured in feet from the operator to the power source. **DO NOT EXCEED THE MAXIMUM DISTANCE.** These calculations have been based on standard 115V and 230V supplies with a 10% drop allowable. If your supply is under the standard rating, the runs listed may be longer than what your application will handle, and you should not run wire too near the upper end of the chart for the gauge of wire you are using.
3. When large-gauge wire is used, a separate junction box (not supplied) may be needed for the operator power connection.
4. All control devices are now 24VDC, which can be run considerable distances. 24VAC is available for other devices, such as loop detectors and photo eyes.
5. Wire run calculations are based on the National Electrical Code, Article 430 and have been carefully determined based on motor inrush, brake solenoids, and operator requirements.
6. Connect power in accordance with local codes. **The green ground wire must be properly connected.**
7. Wire insulation must be suitable to the application.
8. Control wiring must be run in a separate conduit from power wiring. Running them together may cause interference and faulty signals in some accessories.
9. Electrical outlets are supplied in all 115VAC models for convenience with occasional use or low power consumption devices only. If you choose to run dedicated equipment from these devices, it will decrease the distance for maximum run and the charts will no longer be accurate.
10. A three-wire shielded conductor cable is required to connect master and slave operators. You must use Belden 8760 Twisted Pair Shielded Cable (or equivalent) **only** – OSCO part number 2500-1982, per foot. See page 9 for details of this connection, as well as dip switch selection. **Note: The SHIELD wire should be connected in both the master and slave operators.**

USE COPPER WIRE ONLY!

MODEL HSLG – SINGLE PHASE

Power Wiring											
Volts & HP	Max Distance		Wire Gauge	Volts & HP	Max Distance		Wire Gauge	Volts & HP	Max Distance		Wire Gauge
	Single	Dual			Single	Dual			Single	Dual	
115V	222	111	12	208V	760	380	12	230V	894	447	12
	354	177	10		1200	600	10		1422	711	10
	566	283	8		1924	962	8		2264	1132	8
1/2 HP	900	450	6	1/2 HP	3060	1830	6	1/2 HP	3600	1800	6
	1430	715	4		4864	2432	4		5724	2862	4
115V	178	89	12	208	604	302	12	230V	710	355	12
	282	141	10		958	478	10		1128	564	10
	450	225	8		1526	763	8		1796	898	8
3/4 HP	716	358	6	3/4 HP	2424	1212	6	3/4 HP	2852	1426	6
	1140	570	4		3856	1928	4		4538	2269	4
115V	160	80	12	208V	544	272	12	230V	640	320	12
	254	127	10		864	432	10		1016	508	10
	406	203	8		1374	686	8		1616	808	8
	646	323	6		2184	1092	6		2570	1285	6
1HP	1026	513	4	1HP	3476	1738	4	1HP	4090	2045	4

ACCESSORY WIRING

All Models		
Volts	Maximum Distance (ft.)	Wire Gauge
24VAC	250 350*	14 12
24VDC	0-2000	14
*Over 350 ft. use DC power.		

MODEL HSLG – THREE PHASE

Power Wiring: 3 Phase											
Volts & HP	Max Distance		Wire Gauge	Volts & HP	Max Distance		Wire Gauge	Volts & HP	Max Distance		Wire Gauge
	Single	Dual			Single	Dual			Single	Dual	
208V	1142	571	12	230V	1344	672	12	460V	3841	1921	12
1/2 HP	1816	908	10	1/2 HP	2137	1069	10	1/2 HP	6106	3053	10
	2890	1445	8		3400	1700	8		9712	4856	8
208V	920	460	12	230V	1084	542	12	460V	3279	1640	12
3/4 HP	1464	732	10	3/4 HP	1723	862	10	3/4 HP	5212	2606	10
	2330	1165	8		2741	1371	8		8291	4146	8
208V	714	357	12	230V	840	420	12	460V	2689	1345	12
	1136	568	10		1336	668	10		4274	2437	10
1HP	1804	902	8	1HP	2124	1062	8	1HP	6798	3399	8