



AMERICA'S FOOT SWITCH LEADER

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*Full Line Catalog*

# Classic IV - Linear



**NEMA Type 1, 2, 4, 6, 6P & 13**  
**UL ENCLOSURE 1, 2, 4, 6, 6P & 13**  
**CSA ENCLOSURE 1, 2, 4, 6, 6P & 13**  
**EN 60529 Degree of Protection IP68**  
**Meets IEC 60601-2-2**

**Drip tight • Dust tight • Watertight • Oil tight**  
**COMPACT & WATERPROOF DESIGN**

### Materials of Construction:

- One Piece Cast Aluminum Housing Single Stage Momentary Contact
- Aluminum baseplate on unguarded models
- Single Pedal 1/2"-14 N.P.T. Threaded Conduit Opening is Standard
- Twin Pedal 3/4"-14 N.P.T. Threaded Conduit Opening is Standard

### Features & Benefits:

- No dead spot in switch actuation
- Hall Effect sensor for high reliability
- Non-Skid Feet To Minimize Movement
- Divider Bar on Twin Models aids in Reducing Accidental Operation of Multiple Pedals at Once
- 4 holes provided for rigid mounting to floor or equipment

### Options:

- Up to two pushbutton switches possible
- Mode change switch
- Custom switch colors available
- Custom labeling & silkscreening available
- Protective bag for easy clean-up



Single	
Size (HxWxD):	2.50 x 4.19 x 7.00 In.
Weight:	1.75 lbs.
Twin	
Size (HxWxD):	2.50 x 7.40 x 7.00 In.
Weight:	3.63 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>						
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)						
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	TYPE	CIRCUIT	ELECTRICAL RATING
	IP68	88LSN1	Momentary	Unguarded	Linear	Input voltage 5-15 VDC (Other voltages available)
	IP68	88LSH1	Momentary	Guarded	Linear	
	IP68	TWIN 88LSN1	Momentary	Unguarded	Each Pedal Linear	
	IP68	TWIN 88LSH1	Momentary	Guarded	Each Pedal Linear	



## EN 60529 Degree of Protection IP20

### **Rustproof • Corrosion Resistant SPEED CONTROL DEVICE**

#### **Materials of Construction:**

- Steel baseplate for increased strength
- Supplied with dual cordsets, single series plug or custom modified for the O.E.M.
- Polymeric material will not rust or corrode

#### **Features & Benefits:**

- Variable control of small fractional horsepower Universal motors, leaving hands free
- Full Wave variable speed mode, provides higher torque at low RPM's and smoother control of the motor.
- Standard color is black; custom colors may be quoted on large O.E.M. orders
- 2 holes provided for rigid mounting to floor or equipment
- Hall Effect Sensor technology that provides consistent and accurate performance over the life of the foot control, while offering a longer life for the foot control.
- Electronic calibration ensures accurate motor control over the full travel of the pedal.
- Overcurrent Protected.

#### **Options:**

- Steel Weight plate available
- Heavy gauge steel guard available (See "Accessories - Guards" on pages 94 & 95 for details)



Size (HxWxD):	2.25 x 4.00 x 6.34 In.
Weight:	1.21 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>					
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)					
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CORDSET(S)	ELECTRICAL RATINGS
	IP20	982-SC3	Momentary	6' 18/3 SVT with 3-prong plug 1' 18/3 SVT with mating receptacle	6 A 115 VAC 3 A 230 VAC
	IP20	982-SC36	Momentary	6' 18/3 SVT with outer jacket stripped back 1' 18/3 SVT with outer jacket stripped back	6 A 115 VAC

# Hercules - Potentiometer - No Shield



**NEMA Type 1, 2, 4 & 13**  
**EN 60529 Degree of Protection IP56 (IP68 Upon Request)**

**Drip tight • Dust tight • Watertight • Oil tight**  
**NO SHIELD**

**Materials of Construction:**

- Treadle, cover and housing constructed from cast iron for strength and durability
- Painted Alert Orange
- Single 3/4"-14 N.P.T. threaded conduit entry is standard
- This switch is designed for use with variable speed motor drives and is available in selected 2 watt linear values
- Depressing the treadle rotates the potentiometer from zero to the selected maximum resistance shown below
- The treadle is spring loaded and returns to the normal position when the foot pressure is removed
- Auxiliary switch contact rated at 15 Amps  
125-250 VAC can be added to the control
- The switch will operate at the beginning of the treadle stroke
- Up to 3 SPDT switches can be added and adjusted for operation at any point of the treadle stroke



**Features & Benefits:**

- Rugged cast metal enclosure has sufficient weight to keep the switch from sliding when being operated
- All models have a neoprene cover gasket plus O-rings on the activating shaft and a separate ground screw
- 3 holes provided for rigid mounting to the floor or equipment
- Specify the maximum resistance you want

**Options:**

- Special Dual 1/2"-14 N.P.T. threaded conduit entry and metric sizes available to the O.E.M. on special order
- Hercules foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing
- Hercules models available with cast aluminum base and covers (except unshielded cover which is gray iron)

Size (HxWxD):	3.16 x 4.06 x 8.38 In.
Weight:	7.00 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>						
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)						
Replace xx in Catalog Number with value of Potentiometer in Ohms. (i.e. 500-N-5K)						
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CIRCUIT	FORM	ELECTRICAL RATINGS
	IP56	500-N-xx	Momentary	No Auxiliary Contact	-	15 A 125-250 VAC
	IP56	500-AN-xx	Momentary	1 Auxiliary SPDT Contact	C	
	IP56	500-A2N-xx	Momentary	2 Auxiliary Snap Switches	C	
	IP56	500-A3N-xx	Momentary	3 Auxiliary Snap Switches	C	



# Hercules - Potentiometer - Full Shield

**NEMA Type 1, 2, 4 & 13**

**EN 60529 Degree of Protection IP56 (IP68 Upon Request)**

**Drip tight • Dust tight • Watertight • Oil tight**  
**STANDARD FULL SHIELD**



### Materials of Construction:

- Treadle and housing constructed from cast iron for strength and durability
- Protected by a strong cast aluminum Shield
- Painted Alert Orange
- Single 3/4"-14 N.P.T. threaded conduit entry is standard
- This switch is designed for use with variable speed motor drives and is available in selected 2 watt linear values
- Depressing the treadle rotates the potentiometer from zero to the selected maximum resistance shown below
- The treadle is spring loaded and returns to the normal position when the foot pressure is removed
- Auxiliary switch contact rated at 15 Amps 125-250 VAC can be added to the control
- The switch will operate at the beginning of the treadle stroke
- Up to 3 SPDT switches can be added and adjusted for operation at any point of the treadle stroke

### Features & Benefits:

- Rugged cast metal enclosure has sufficient weight to keep the switch from sliding when being operated
- All models have a neoprene cover gasket plus O-rings on the activating shaft and a separate ground screw
- 3 holes provided for rigid mounting to the floor or equipment
- Specify the maximum resistance you want

### Options:

- Special Dual 1/2"-14 N.P.T. threaded conduit entry and metric sizes available to the O.E.M. on special order
- Hercules foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing
- Hercules models available with cast aluminum base and covers (except unshielded cover which is gray iron)

Size (HxWxD):	4.37 x 5.88 x 9.00 In.
Weight:	7.50 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>						
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)						
Replace xx in Catalog Number with value of Potentiometer in Ohms. (i.e. 500-H-5K)						
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CIRCUIT	FORM	ELECTRICAL RATINGS
	IP56	500-H-xx	Momentary	No Auxiliary Contact	-	15 A 125-250 VAC
	IP56	500-AH-xx	Momentary	1 Auxiliary SPDT Contact	C	
	IP56	500-A2H-xx	Momentary	2 Auxiliary SPDT Contacts	C	
	IP56	500-A3H-xx	Momentary	3 Auxiliary SPDT Contacts	C	

# Hercules - Potentiometer - O Shield



**NEMA Type 1, 2, 4 & 13**  
**EN 60529 Degree of Protection IP56 (IP68 Upon Request)**

**Drip tight • Dust tight • Watertight • Oil tight**  
**OVERSIZED SHIELD**



**Materials of Construction:**

- Treadle and housing constructed from cast iron for strength and durability
- Protected by a strong cast aluminum Shield
- Painted Alert Orange
- Single 3/4"-14 N.P.T. threaded conduit entry is standard
- This switch is designed for use with variable speed motor drives and is available in selected 2 watt linear values
- Depressing the treadle rotates the potentiometer from zero to the selected maximum resistance shown below
- The treadle is spring loaded and returns to the normal position when the foot pressure is removed
- Auxiliary switch contact rated at 15 Amps 125-250 VAC can be added to the control
- The switch will operate at the beginning of the treadle stroke
- Up to 3 SPDT switches can be added and adjusted for operation at any point of the treadle stroke

**Features & Benefits:**

- Rugged cast metal enclosure has sufficient weight to keep the switch from sliding when being operated
- All models have a neoprene cover gasket plus O-rings on the activating shaft and a separate ground screw
- 3 holes provided for rigid mounting to the floor or equipment
- Specify the maximum resistance you want

**Options:**

- Special Dual 1/2"-14 N.P.T. threaded conduit entry and metric sizes available to the O.E.M. on special order
- Hercules foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing
- Hercules models available with cast aluminum base and covers (except unshielded cover which is gray iron)

Size (HxWxD):	5.03 x 5.88 x 9.13 In.
Weight:	8.00 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>						
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)						
Replace xx in Catalog Number with value of Potentiometer in Ohms. (i.e. 500-HO-5K)						
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CIRCUIT	FORM	ELECTRICAL RATINGS
	IP56	500-HO-xx	Momentary	No Auxiliary Contact	-	15 A 125-250 VAC
	IP56	500-AHO-xx	Momentary	1 Auxiliary SPDT Contact	C	
	IP56	500-A2HO-xx	Momentary	2 Auxiliary Snap Switches	C	
	IP56	500-A3HO-xx	Momentary	3 Auxiliary Snap Switches	C	



# Hercules - Potentiometer - OX Shield

**NEMA Type 1, 2, 4 & 13**

**EN 60529 Degree of Protection IP56 (IP68 Upon Request)**

**Drip tight • Dust tight • Watertight • Oil tight  
EXTRA OVERSIZED SHIELD**

### Materials of Construction:

- Treadle and housing constructed from cast iron for strength and durability
- Protected by a strong cast aluminum Shield
- Painted Alert Orange
- Single 3/4"-14 N.P.T. threaded conduit entry is standard
- This switch is designed for use with variable speed motor drives and is available in selected 2 watt linear values
- Depressing the treadle rotates the potentiometer from zero to the selected maximum resistance shown below
- The treadle is spring loaded and returns to the normal position when the foot pressure is removed
- Auxiliary switch contact rated at 15 Amps 125-250 VAC can be added to the control
- The switch will operate at the beginning of the treadle stroke
- Up to 3 SPDT switches can be added and adjusted for operation at any point of the treadle stroke



### Features & Benefits:

- Rugged cast metal enclosure has sufficient weight to keep the switch from sliding when being operated
- All models have a neoprene cover gasket plus O-rings on the activating shaft and a separate ground screw
- 3 holes provided for rigid mounting to the floor or equipment
- Specify the maximum resistance you want

### Options:

- Special Dual 1/2"-14 N.P.T. threaded conduit entry and metric sizes available to the O.E.M. on special order
- Hercules foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing
- Hercules models available with cast aluminum base and covers (except unshielded cover which is gray iron)

Size (HxWxD):	5.78 x 6.03 x 9.13 In.
Weight:	8.25 lbs.

<b>⚠ WARNING SEE PRODUCT WARNING ON PAGE 103</b>						
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)						
Replace xx in Catalog Number with value of Potentiometer in Ohms. (i.e. 500-HOX-5K)						
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CIRCUIT	FORM	ELECTRICAL RATINGS
US	IP56	500-HOX-xx	Momentary	No Auxiliary Contact	-	15 A 125-250 VAC
US	IP56	500-AHOX-xx	Momentary	1 Auxiliary SPDT Contact	C	
US	IP56	500-A2HOX-xx	Momentary	2 Auxiliary SPDT Contact	C	
US	IP56	500-A3HOX-xx	Momentary	3 Auxiliary SPDT Contact	C	

# Varior - Potentiometer



## EN 60529 Degree of Protection IP20

### Variable Control Potentiometer

#### LONG TREADLE THROW LARGE FOOTPRINT DESIGN

#### Materials of Construction:

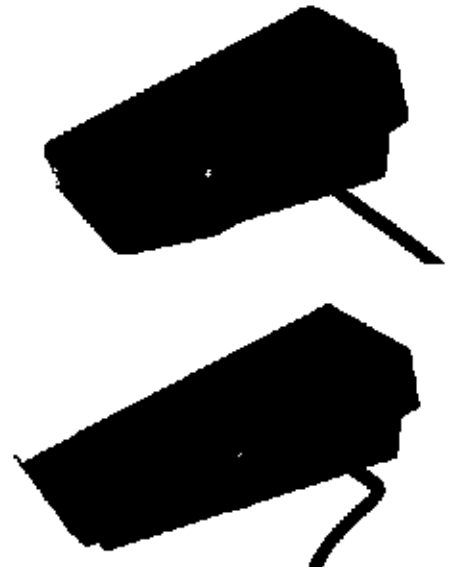
- Steel housing electro-coated black finish
- Complete with full treadle pad and nonskid base pad
- Spring return pedal action on momentary models
- Adjustable friction pad design on maintained models
- Maximum resistance must be specified when ordering

#### Features & Benefits:

- Retrofits most welding equipment with a simple receptacle selection
- For environments where a non-watertight housing is suitable
- 2 holes provided for rigid mounting to floor or equipment
- Heel rest offered on "OH" models

#### Options:

- Custom cable lengths available
- Varior foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing.



## ESAB • HOBART • LINCOLN • MILLER WELDING EQUIPMENT REPLACEMENT FOOT CONTROLS

Standard	
Size (HxWxD):	4.17 x 4.50 x 9.71 In.
Weight:	4.91 lbs.
Industrial	
Size (HxWxD):	4.00 x 4.52 x 12.78 In.
Weight:	5.00 lbs.

#### NOTE:

Contact **LINEMASTER®** for replacement foot controls for your **ESAB®, Hobart®, Lincoln® or Miller®** welding equipment.

⚠ <b>WARNING</b> SEE PRODUCT WARNING ON PAGE 103				
SPECIFICATIONS (Special variations are available to the O.E.M. on special order on the models listed below)				
Replace xx in Catalog Number with value of Potentiometer in Ohms. (i.e. 09ASXP-5K)				
AGENCY APPROVALS	EN 60529 Degree of Protection	CATALOG NUMBER	DESCRIPTION	CORDSET
	IP20	09ASXP-xx	Momentary	Supplied with a 6 ft. 18/4 cordset without plug. Wired three leads to potentiometer and green lead to ground.
	IP20	09ARXU-xx	Maintained	
	IP20	09ASAC-xx	Momentary	Supplied with 6 ft. 18/6 cordset without plug, with auxiliary switch set to operate at the beginning of treadle stroke and wired N.O. Three leads to potentiometer and green lead to ground.
	IP20	09ARAC-xx	Maintained	
	IP20	0HASAC-xx	Momentary	
	IP20	0HASAA-1K	Momentary	Supplied with 25' 18/6 cordset with 14 pin plug compatible with Hobart® & Miller®
	IP20	0HASAA-5KW	Momentary	Supplied with 25' 18/6 cordset with 14 pin plug compatible with Hobart® & Miller® (NOTE: Waterproof Potentiometer)
	IP20	0HASAB-10K	Momentary	Supplied with 25' 18/6 cordset with 6 pin plug compatible with Lincoln®
	IP20	0HASAD-10K	Momentary	Supplied with 30' 18/6 cordset with 14 pin plug compatible with ESAB®





## EN 60529 Degree of Protection

### Electronic Throttle Control CUSTOM APPLICATION SPECIFIC DESIGN

#### Materials of Construction:

- Steel housing electro-coated black finish
- Weather Resistant Components
- Complete with full treadle pad and nonskid base pad
- Spring return pedal action on momentary models
- Adjustable friction pad design on maintained models
- Maximum resistance must be specified when ordering
- Custom Mounting Configurations
- Custom Arm Configurations
- Custom Linkage Configurations

#### Features & Benefits:

- Retrofit installations
- For environments where a non-watertight housing is suitable
- Rigid mounting to floor or equipment
- Heel rest offered

#### Options:

- Auxiliary Switch(es) Available
- Rotary Potentiometer Available
- Hall Effect Circuit output available
- Custom cable lengths available
- Varior foot operated potentiometers are available with 5,000 Ohm or 10,000 Ohm values. Other potentiometer values are available upon request or by special order. Please contact the office for availability and pricing



**Introducing LINEMASTER® Throttle Controls. There are numerous applications for these controls, including use in various types of electric vehicles where accurate control of speed is required. LINEMASTER® offers a rugged construction for long life, ergonomic friendly designs and ease of operation. If you have an application that requires a throttle control, please contact our Customer Service Department for details.**

Assemblies	
Size (HxWxD):	Application Specific
Weight:	Application Specific
Enclosures	
Size (HxWxD):	4.20 x 4.50 x 11.90 In.
Weight:	4.00 lbs

**⚠ WARNING SEE PRODUCT WARNING ON PAGE 103**

This device is of an application specific design. Please Contact LINEMASTER® for additional Information 1-860-974-1000