

**EN 60529 Degree of Protection IP68
FCC**

Drip tight • Dust tight • Watertight • Oil tight

Materials of Construction:

- Treadle and housing constructed from cast iron for strength and durability
- Protected by a strong cast aluminum oversized shield
- Painted Alert Orange

Features & Benefits:

- Removes clutter of wires under foot
- IP68 fully submersible in water Transmitter
- IPX1 Degree of Protection for the Receiver
- 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
- Heavy duty weather resistant construction for harsh environments
- Momentary actuation Contacts: single pole, double throw, up to 10 amp service
- Available in up to 3 switch functions
- Multiple systems may be used in the same vicinity at the same time
- 40 foot range of RF Transmission
- 700 hours of battery life at 50% duty cycle
- 3 (AA) batteries required for Transmitter
- 3 holes provided for rigid mounting to the floor or equipment
- Available for US and European service
- 802.15.4 Compliant
- 2.405 - 2.480 GHz, 15 Channels Available

Options:

- Oversize “O” and “OX” Shield models accept oversized safety shoes and metatarsal foot guards. The “OX” Shield has an additional 3/4” (19.1 mm) opening height as compared to the “O” shield
- Handle option available for ease of maneuvering the foot pedal
- Receiver powered by 6 Volt Adapter
- Twin Versions Available for special order



Oversized Cover Guard Model		Certification: UL Listed to UL 508 CUL investigated to C22.2 No. 14-05 FCC ID #VPA-SP-831
Size (HxWxD):	5.03 in. x 5.88 in. x 9.13 in.	
Weight:	8.00 lbs.	<i>For Dimension Drawings visit www.linemaster.com and click on Line Drawings located under the Guides & Literature Tab</i>
Oversized Cover Guard with Handle Model		
Size (HxWxD):	35.78 in. x 6.03 in. x 9.13 in.	
Weight:	9.00 lbs.	

⚠ WARNING SEE PRODUCT WARNING ON PAGE 103

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	STAGE	CIRCUIT	FORM	ELECTRICAL RATINGS
	IP68 Transmitter IPX1 Receiver	SP-831-111000XA	Momentary, O-Shield	Single	SPDT	C	Max. Switched Voltage: 380 VAC Max. Switched Current: 14A N.O., AC resistive; 8 amps DC Max. Switched Power: 200W, DC; 2,000V A, AC Min. Required Contact Load: 12V, 100mA VDE Contact Ratings: 8 amps, 250 VAC UL Contact Ratings: 10 amps, 240 VAC; 8 amps 24 VDC 1/3 HP, 120 VAC; 1/2 HP, 240 VAC
		SP-831-111101XA		Single	DPDT	C	
		SP-831-111202XA		Single	TPDT	C	
		SP-831-111100XA	Momentary, O-Shield with Handle	Single	SPDT	C	
		SP-831-111201XA		Single	DPDT	C	
		SP-831-111302XA		Single	TPDT	C	

Special Variations Available upon request.

NEMA Type

Classified to IEC/UL 60601.1

Classified to Can/CSA C22.2 No. 60601.1

EN 60529 Degree of Protection IP68 (Transmitter Only)

EN 60529 Degree of Protection IPX1 (Receiver Only)

Meets EMC Directive EN60601-1-2

Federal Communications Commission (FCC) Compliant

Drip tight • Dust tight • Watertight • Oil tight • Rust Proof • Corrosion Resistant
DIGITAL RF WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Mode change switch available
- Transmitter battery life: 700 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 2ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
- Transmitter low battery indicator
- Receiver output: SPST relay, 0.5 amp contacts; SPDT relays optional
- Receiver switch activation indicator(s)
- High impact plastic wiring channel and receiver housing

Features & Benefits:

- 2.405 - 2.480 GHz, Channels 1-15
- 802.15.4 Compliant
- Meets IEC 60601 3rd Edition
- Automatic RF power level adjustment of Transmitter
- Waterproof - IP68 degree of protection for foot pedal (Transmitter)
- IPX1 degree of protection for Receiver
- 50 foot range typical
- Typical Latency: < 65ms
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up



Transmitter (Switch)	
Size (HxWxD):	2.63 x 8.09 x 8.93 In.
Weight:	3.70 lbs. with batteries
Receiver	
Size (HxWxD):	2.25 x 5.00 x 3.50 In.
Weight:	.45 lbs.
For Dimension Drawings visit www.linemaster.com and click on Line Drawings located under the Guides & Literature Tab	

Classified to IEC/UL Medical Electrical Equipment by Underwriter's Laboratories, Inc. with respect to fire, shock, and mechanical hazards in accordance with IEC/UL 60601.1

Classified with respect to electric shock, fire, mechanical, and other specified hazards only, in accordance with Can/CSA C22.2 No. 60601.1

Meets EMC Directive EN60601-1-2

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



Radio Frequency Wireless Digital - Twin

NEMA Type

Classified to IEC/UL 60601.1

Classified to Can/CSA C22.2 No. 60601.1

EN 60529 Degree of Protection IP68 (Transmitter Only)

EN 60529 Degree of Protection IPX1 (Receiver Only)

Meets EMC Directive EN60601-1-2

Federal Communications Commission (FCC) Compliant



**Drip tight • Dust tight • Watertight • Oil tight •
Rust Proof • Corrosion Resistant
DIGITAL RF WIRELESS DEVICE**

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Mode change switch available
- Transmitter battery life: 700 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 2ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
- Transmitter low battery indicator
- Receiver output: SPST relay, 0.5 amp contacts; SPDT relays optional
- Receiver switch activation indicator(s)
- High impact plastic wiring channel and receiver housing

Features & Benefits:

- 2.405 - 2.480 GHz, Channels 1-15
- 802.15.4 Compliant
- Meets IEC 60601 3rd Edition
- Automatic RF power level adjustment of Transmitter
- Waterproof - IP68 degree of protection for foot pedal (Transmitter)
- IPX1 degree of protection for Receiver
- 50 foot range typical
- Typical Latency: < 65ms
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up

Transmitter (Switch)	
Size (HxWxD):	2.63 x 14.00 x 9.41 In.
Weight:	5.50 lbs. with batteries
Receiver	
Size (HxWxD):	2.25 x 5.00 x 3.50 In.
Weight:	.45 lbs.
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NEMA Type

Classified to IEC/UL 60601.1

Classified to Can/CSA C22.2 No. 60601.1

EN 60529 Degree of Protection IP68 (Transmitter Only)

EN 60529 Degree of Protection IPX1 (Receiver Only)

Meets EMC Directive EN60601-1-2

Federal Communications Commission (FCC) Compliant

Drip tight • Dust tight • Watertight • Oil tight •

Rust Proof • Corrosion Resistant

DIGITAL RF WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Mode change switch available
- Transmitter battery life: 700 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 2ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
- Transmitter low battery indicator
- Receiver output: SPST relay, 0.5 amp contacts; SPDT relays optional
- Receiver switch activation indicator(s)
- High impact plastic wiring channel and receiver housing

Features & Benefits:

- 2.405 - 2.480 GHz, Channels 1-15
- 802.15.4 Compliant
- Meets IEC 60601 3rd Edition
- Automatic RF power level adjustment of Transmitter
- Waterproof - IP68 degree of protection for foot pedal (Transmitter)
- IPX1 degree of protection for Receiver
- 50 foot range typical
- Typical Latency: < 65ms
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up



Transmitter (Switch)	
Size (HxWxD):	2.63 x 21.00 x 10.93 In.
Weight:	7.50 lbs. with batteries
Receiver	
Size (HxWxD):	2.25 x 5.00 x 3.50 In.
Weight:	.45 lbs.
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Meets EMC Directive EN60601-1-2

WARNING SEE PRODUCT WARNING ON PAGE 103

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Infrared Wireless Digital - Single

NEMA Type
Classified to IEC/UL 60601.1
Classified to Can/CSA C22.2 No. 60601.1
EN 60529 Degree of Protection IP68 (Transmitter Only)
EN 60529 Degree of Protection IPX1 (Receiver Only)
Meets EMC Directive EN60601-1-2
Food & Drug Administration (FDA) 510K Clearance

Drip tight • Dust tight • Watertight • Oil tight • Rust Proof • Corrosion Resistant
DIGITAL IR WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Up to 4 systems can be operating at the same time in the same room
- Mode change switch available
- Transmitter battery life: 200 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 100ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
- Transmitter low battery indicator
- Receiver output: SPST relay, 0.5 amp contacts; SPDT relays optional
- Receiver switch activation indicator(s)
- Non Line-of-Sight Multi-Directional infrared transmission, 360 degree coverage
- Protective Dual Layer Signal eliminates cross talk

Features & Benefits:

- 40 foot range typical
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- Meets IEC 60601 3rd Edition
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up
- Battery Powered Receiver optional



Transmitter (Switch)	
Size (HxWxD):	3.07 x 8.09 x 8.93 In.
Weight:	3.70 lbs. with batteries
Receiver (Standard)	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.
Receiver (Battery Powered)	
Size (HxWxD):	5.50 x 5.25 x 4.50 In.
Weight:	1.70 lbs.
<i>For Dimension Drawings visit www.linemaster.com and click on Line Drawings located under the Guides & Literature Tab</i>	



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Meets EMC Directive EN60601-1-2

⚠ WARNING PLASMA VIDEO DISPLAYS CAN SERIOUSLY AFFECT THE OPERATION OF THIS DEVICE. PLASMA VIDEO DISPLAYS CAN INCREASE THE SWITCH ACTIVATION TIMES SIGNIFICANTLY OR PREVENT SWITCH OPERATION ALTOGETHER. DO NOT USE IN THE VICINITY OF PLASMA VIDEO DISPLAYS.

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NEMA Type
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EN 60529 Degree of Protection IP68 (Transmitter Only)
EN 60529 Degree of Protection IPX1 (Receiver Only)
Meets EMC Directive EN60601-1-2
Food & Drug Administration (FDA) 510K Clearance

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DIGITAL IR WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Up to 4 systems can be operating at the same time in the same room
- Mode change switch available
- Transmitter battery life: 200 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 100ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
- Transmitter low battery indicator
- Receiver output: SPST relay, 0.5 amp contacts; SPDT relays optional
- Receiver switch activation indicator(s)
- Non Line-of-Sight Multi-Directional infrared transmission, 360 degree coverage
- Protective Dual Layer Signal eliminates cross talk

Features & Benefits:

- 40 foot range typical
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- Meets IEC 60601 3rd Edition
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up
- Battery Powered Receiver optional



Transmitter (Switch)	
Size (HxWxD):	3.07 x 14.00 x 9.41 In.
Weight:	5.50 lbs. with batteries
Receiver (Standard)	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.
Receiver (Battery Powered)	
Size (HxWxD):	5.50 x 5.25 x 4.50 In.
Weight:	1.70 lbs.
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EN 60529 Degree of Protection IP68 (Transmitter Only)
EN 60529 Degree of Protection IPX1 (Receiver Only)
Meets EMC Directive EN60601-1-2
Food & Drug Administration (FDA) 510K Clearance



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DIGITAL IR WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5
- Up to 4 systems can be operating at the same time in the same room
- Mode change switch available
- Transmitter battery life: 200 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 100ua
- Standard Power Requirements (Receiver): 6VDC @ 200ma (other voltages optional)
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Features & Benefits:

- 40 foot range typical
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- Meets IEC 60601 3rd Edition
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up
- Battery Powered Receiver optional



Transmitter (Switch)	
Size (HxWxD):	3.07 x 21.00 x 10.93 In.
Weight:	7.50 lbs. with batteries
Receiver (Standard)	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.
Receiver (Battery Powered)	
Size (HxWxD):	5.50 x 5.25 x 4.50 In.
Weight:	1.70 lbs.
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NEMA Type

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Classified to Can/CSA C22.2 No. 60601.1

EN 60529 Degree of Protection IP68 (Transmitter Only)

EN 60529 Degree of Protection IPX1 (Receiver Only)

Meets EMC Directive EN60601-1-2

Drip tight • Dust tight • Watertight • Oil tight

LINEAR IR WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5, up to 3 linear and 3 digital switch functions
- Up to 4 systems can be operating at the same time in the same room
- Transmitter battery life: 150-200 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 250ua
- Standard Power Requirements (Receiver): 12VDC @ 200ma
- Transmitter low battery indicator
- Uses industry standard AA Alkaline batteries
- Range: Typically 40 feet
- Linear receiver output voltage is customer specified with 12VDC maximum output (other voltages optional)
- Receiver switch activation indicator(s)
- Non Line-of-Sight Multi-Directional infrared transmission, 360 degree coverage
- Exceptional linear control - smooth and responsive
- New custom designed foot pedal
- Uses Hall Effect sensors:
High reliability, No mechanical interface,
High linearity, No dead spots
- Submersible transmitter for easy cleaning
- Eliminates the need for cords
- Retro-fits most existing equipment
- No product calibration required – plug and go



Features & Benefits:

- 40 foot range typical
- Uses industry standard AA Alkaline batteries
- Eliminates the need for cords
- Retrofits most existing equipment
- Meets IEC 60601 3rd Edition
- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up

Transmitter (Switch)	
Size (HxWxD):	3.07 x 8.09 x 8.93 In.
Weight:	3.70 lbs. with batteries
Receiver	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.

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EN 60529 Degree of Protection IP68 (Transmitter Only)
EN 60529 Degree of Protection IPX1 (Receiver Only)
Meets EMC Directive EN60601-1-2



Drip tight • Dust tight • Watertight • Oil tight
LINEAR IR WIRELESS DEVICE

Materials of Construction:

- Switch Functions: Maximum combinations of 5, up to 3 linear and 3 digital switch functions
- Up to 4 systems can be operating at the same time in the same room
- Transmitter battery life: 150-200 hours @ 50% duty cycle typical
- Power Consumption (Transmitter): Stand-by 250ua
- Standard Power Requirements (Receiver): 12VDC @ 200ma
- Transmitter low battery indicator
- Uses industry standard AA Alkaline batteries
- Range: Typically 40 feet
- Linear receiver output voltage is customer specified with 12VDC maximum output (other voltages optional)
- Receiver switch activation indicator(s)
- Non Line-of-Sight Multi-Directional infrared transmission, 360 degree coverage
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- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up

Transmitter (Switch)	
Size (HxWxD):	3.07 x 14.00 x 9.41 In.
Weight:	5.50 lbs. with batteries
Receiver	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.

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NEMA Type

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Classified to Can/CSA C22.2 No. 60601.1

EN 60529 Degree of Protection IP68 (Transmitter Only)

EN 60529 Degree of Protection IPX1 (Receiver Only)

Meets EMC Directive EN60601-1-2

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LINEAR IR WIRELESS DEVICE



Materials of Construction:

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- No product calibration required – plug and go
- Submersible transmitter for easy cleaning

Options:

- Protective bag available for easy clean-up

Transmitter (Switch)	
Size (HxWxD):	3.07 x 21.00 x 11.00 In.
Weight:	7.50 lbs. with batteries
Receiver	
Size (HxWxD):	2.75 x 5.00 x 3.50 In.
Weight:	.45 lbs.

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