

# Industrial Grade Switches







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# Industrial Grade Switches



Leviton is the smart choice, providing the most comprehensive range of solutions to meet the needs of today's commercial and industrial buildings. Leveraging more than a century of experience, Leviton helps customers create sustainable, intelligent environments through its electrical wiring devices, network and data center connectivity solutions, and lighting energy management systems. From switches and receptacles, to daylight harvesting controls, networking systems, and equipment for charging electric vehicles, Leviton solutions help customers achieve savings in energy, time and cost, all while enhancing safety.





# Section 1 AC Toggle Switches

# AC Toggle Switches

Leviton Extra Heavy Duty AC Toggle Switches have been designed to provide superior performance in the most demanding environments. These devices feature large, silver alloy contacts that are resistant to sticking, welding and pitting. The single-piece copper alloy contact arm and toggle mechanism ensure proper contact alignment and smooth toggle operation. Plus, these switches employ number of features that are designed to speed installation. All of this adds up to superior performance and long service life, backed by a 10-year limited warranty.

## Features and Benefits

- Heavy gauge galvanized steel mounting strap provides superior strength and resists corrosion
- Thermoplastic toggle is highly resistant to impact and withstands elevated operating temperatures
- Brass self-grounding clip is staked on to strap to provide ground continuity between strap and metal wall box
- Switch covers are color coded for easy amperage identification: blue = 15 A, red = 20 A, green = 30 A
- External clamp wiring terminals allow for easy back- or side-wiring, and provide feed-thru capabilities eliminating the need for pigtails
- Integral ground terminal also employs a clamp for quick and easy back- or side-wiring
- Large head brass terminal screws ensures secure wire connection while triple-drive feature provides maximum flexibility
- Convenient markings for line and load terminals and wire strip length for back-wire applications help speed installation



1221-2I  
(Front View)



1221-2I  
(Rear View)



1202-2L



1243-LGY



3031-PLC



1222-2KL

	Amp/ Cover Color	White	Ivory	Gray	Black	Brown	Red	Light Almond	Clear	Green
<b>SINGLE POLE</b>										
Toggle	15 A	1201-2W	1201-2I	1201-2GY	—	1201-2	1201-2R	—	—	—
	20 A	1221-2W	1221-2I	1221-2GY	1221-2E	1221-2	1221-2R	1221-2T	—	—
	30 A	3031-2W	3031-2I	—	—	3031-2	—	—	—	—
Tamper-Resistant Toggle	15 A	—	1201-2IL	—	—	1201-2L	—	—	—	—
	20 A	1221-2WL	1221-2IL	1221-2GL	—	1221-2L	1221-2RL	—	—	—
	30 A	—	—	—	—	3031-2L	—	—	—	—
Pilot Light	15 A	—	—	—	—	—	1201-PLR	—	1201-PLC	1201-PLG
	20 A	—	—	—	—	—	1221-PLR <sup>1</sup>	—	1221-PLC <sup>1</sup>	1221-PLG
	30 A	—	—	—	—	—	3031-PLR	—	3031-PLC	—
Lighted Toggle	15 A	1201-LHW	1201-LHI	—	—	—	1201-LHR	—	1201-LHC	—
	20 A	1221-LHW <sup>2</sup>	1221-LHI <sup>2</sup>	—	—	—	1221-LHR <sup>2</sup>	—	1221-LHC <sup>2</sup>	—
	30 A	—	3031-LHI	—	—	—	—	—	—	—
Key Locking	20 A	1221-2KL <sup>3</sup>	—	—	—	—	—	—	—	—
6-Inch Wire Leads	15 A	1241-W	1241-I	1241-LGY	—	—	—	—	—	—
	20 A	1243-W	1243-I	1243-LGY	—	—	—	—	—	—
<b>DOUBLE POLE</b>										
Toggle	15 A	1202-2W	1202-2I	1202-2GY	—	1202-2	—	—	—	—
	20 A	1222-2W	1222-2I	1222-2GY	1222-2E	1222-2	1222-2R	—	—	—
	30 A	3032-2W	3032-2I	—	3032-2E	3032-2	3032-2R	—	—	—
Tamper-Resistant Toggle	15 A	—	—	—	—	1202-2L	—	—	—	—
	20 A	—	122-2IL	—	—	1222-2L	—	—	—	—
	30 A	—	—	—	—	3032-2L	—	—	—	—
Pilot Light	15 A	—	—	—	—	—	1202-PLR	—	—	—
	20 A	—	—	—	—	—	1222-PLR <sup>1</sup>	—	1222-PLC	1222-PLG
	30 A	—	—	—	—	—	3032-PLR	—	3032-PLC	—
Key Locking	20 A	1222-2KL <sup>3</sup>	—	—	—	—	—	—	—	
<b>THREE-WAY</b>										
Toggle	15 A	1203-2W	1203-2I	1203-2GY	—	1203-2	1203-2R	—	—	—
	20 A	1223-2W	1223-2I	1223-2GY	1223-2E	1223-2	1223-2R	1223-2T	—	—
	30 A	3033-2W	3033-2I	—	—	3033-2	—	—	—	—
Tamper-Resistant Toggle	15 A	—	1203-2IL	—	—	1203-2L	—	—	—	—
	20 A	1223-2WL	1223-2IL	1223-2GL	—	1223-2L	—	—	—	—
	30 A	—	—	—	—	3033-2L	—	—	—	—
Pilot Light	15 A	—	—	—	—	—	1203-PLR	—	1203-PLC	1203-PLG
	20 A	—	—	—	—	—	1223-PLR <sup>1</sup>	—	1223-PLC	1223-PLG
Lighted Toggle	15 A	1203-LHW	1203-LHI	—	—	—	1203-LHR	—	1203-LHC	—
	20 A	1223-LHW <sup>2</sup>	1223-LHI <sup>2</sup>	—	—	—	—	—	1223-LHC <sup>2</sup>	—
Key Locking	20 A	1223-2KL <sup>3</sup>	—	—	—	—	—	—	—	—
6-Inch Wire Leads	15 A	1242-W	1242-I	—	—	—	—	—	—	—
	20 A	1244-W	1244-I	1244-LGY	—	—	—	—	—	—
<b>FOUR-WAY</b>										
Toggle	15 A	1204-2W	1204-2I	1204-2GY	—	1204-2	—	—	—	—
	20 A	1224-2W	1224-2I	1224-2GY	1224-2E	1224-2	1224-2R	1224-2T	—	—
Tamper-Resistant Toggle	15 A	—	—	—	—	1204-2L	—	—	—	—
	20 A	1224-2WL	1224-2IL	1224-2GL	—	1224-2L	—	—	—	—
Key Locking	20 A	1224-2KL <sup>3</sup>	—	—	—	—	—	—	—	—

<sup>1</sup> for 277 V Circuits, Replace "P" in Catalog Number Suffix with "7"

<sup>2</sup> for 277 V Circuits, Replace "L" in Catalog Number Suffix with "7"

<sup>3</sup> Key is Silver

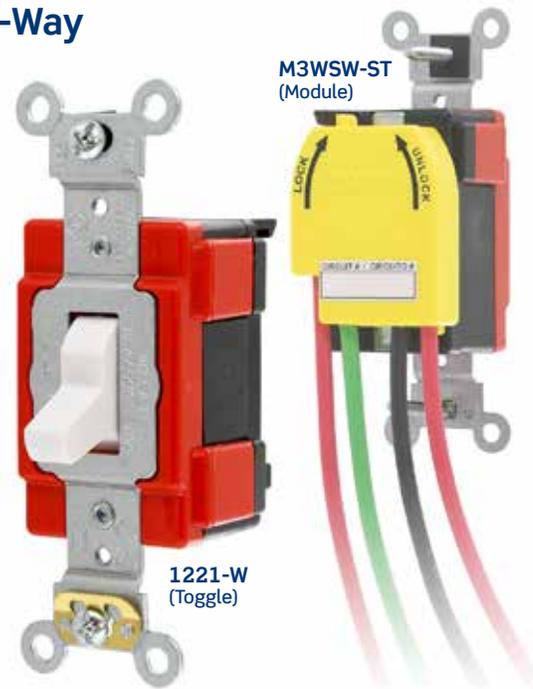
# Modular Toggle Switches

## lev-lok<sup>®</sup> Single Pole & Three-Way Toggle Switches

The perfect productivity solution for electrical construction and maintenance applications.

### Features and Benefits:

- Devices constructed with impact-resistant thermoplastic nylon cover and body
- Four corner latches securely fasten device's face to body
- Solid brass locking pins for strong, secure connection between device and wiring module
- Wiring module ships with protective cover, preventing debris from entering contacts until device is attached
- Modules have factory-installed circuit ID labels
- Switch covers are color-coded by amp rating for easy identification
- Backed by a limited 10-year warranty



	Amp	White	Ivory	Gray	Black	Brown	Red	Light Almond	Clear
<b>SINGLE POLE</b>									
Toggle	15 A	M1201-W	M1201-I	M1201-GY	—	M1201	M1201-R	—	—
	20 A	M1221-W	M1221-I	M1221-GY	M1221-E	M1221	M1221-R	M1221-T	—
Tammer-Resistant Toggle	15 A	—	M1201-IL	—	—	M120L-L	—	—	—
	20 A	M1221-WL	M1221-IL	M1221-GL	—	M1221-L	M1221-RL	—	—
Lighted Toggle	15 A	M1201-LHW	M1201-LHI	—	—	—	—	—	M1201-LHC
	20 A	M1221-LHW	M1221-LHI	—	—	—	—	—	M1221-LHC
<b>THREE-WAY</b>									
Toggle	15 A	M1203-W	M1203-I	M1203-GY	—	M1203	M1203-R	—	—
	20 A	M1223-W	M1223-I	M1223-GY	M1223-E	M1223	M1223-R	M1223-T	—
Tammer-Resistant Toggle	15 A	—	M1203-IL	—	—	M120L-L	—	—	—
	20 A	M1223-WL	M1223-IL	M1223-GL	—	M1223-L	M1223-RL	—	—
Lighted Toggle	15 A	M1203-LHW	M1203-LHI	—	—	—	—	—	M1203-LHC
	20 A	M1223-LHW	M1223-LHI	—	—	—	—	—	M1223-LHC
<b>Wiring Modules for Single Pole Switches</b>									<b>Cat No</b>
Stranded Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green									MSPSW-ST
Stranded Wire Leads (6"L) with Push Wire Connectors - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green									MSPSW-WST
Solid Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green									MSPSW-SD
Stranded Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Brown, Brown, Green									MSPSW-7ST
Solid Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Brown, Brown, Green									MSPSW-7SD
<b>Wiring Modules for Three-Way Switches</b>									<b>Cat No</b>
Stranded Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green									M3WSW-ST
Stranded Wire Leads (6"L) with Push Wire Connectors - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green									M3WSW-WST
Stranded Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Brown, Yellow, Yellow, Green									M3WSW-7ST
Solid Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green									M3WSW-SD

# Momentary & Maintained Contact Toggle Switches

Leviton Three Position Toggle Switches provide the same high level of performance as our two-position (ON/OFF) toggle switches and are ideal for special purpose applications. They are available in both maintained and momentary contact (Center OFF) configurations, and conform to UL 60947-4-1 (supersedes UL 508).

These switches can be used at full rated current for fluorescent, tungsten, and resistive loads; 80% of rated current for motor loads.

## Features and Benefits:

- Heavy gauge nickel-plated steel mounting strap provides superior strength and resists corrosion
- Thermoplastic toggle is highly resistant to impact and withstands elevated operating temperatures
- Large head brass terminal screws ensures secure wire connection
- Terminal wiring clamps provide convenient back- and side-wiring options



## Maintained Contact

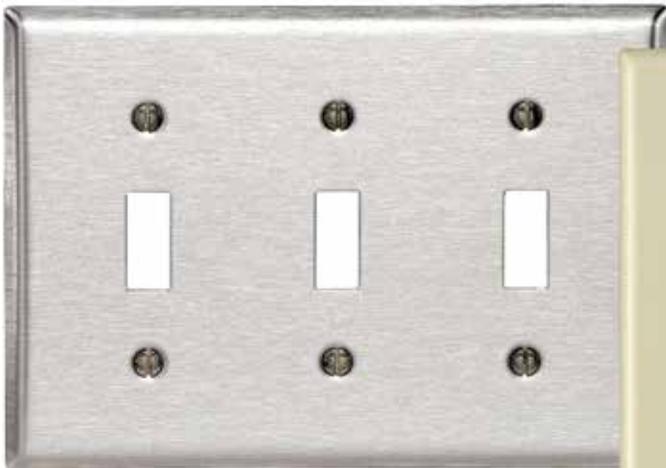
	Amp	White	Ivory	Gray	Black	Brown	Red	Light Almond
<b>SINGLE POLE, DOUBLE THROW, CENTER OFF</b>								
Toggle	15 A	1281-W	1281-I	—	—	1281	—	—
	20 A	1285-W	1285-I	1285-GY	—	1285	1285-R	1285-T
	30 A	—	1287-I	—	—	1287	—	—
Tamper-Resistant Toggle	15 A	—	—	—	1281-L	—	—	—
	20 A	—	—	—	1285-L	—	—	—
	30 A	—	—	—	1287-L	—	—	—
<b>DOUBLE POLE, DOUBLE THROW, CENTER OFF</b>								
Toggle	15 A	1282-W	1282-I	—	—	1282	—	—
	20 A	1286-W	1286-I	—	—	1286	—	—
	30 A	1288-W	1288-I	—	—	1288	—	—
Tamper-Resistant Toggle	30 A	—	—	—	1288-L	—	—	—

## Momentary Contact

	Amp	White	Ivory	Gray	Black	Brown	Red	Light Almond
<b>SINGLE POLE, DOUBLE THROW, CENTER OFF</b>								
Toggle	15 A	1256-W	1256-I	1256-GY	—	1256	—	—
	20 A	1257-W	1257-I	1257-GY	—	1257	1257-R	1257-T
	30 A	—	—	—	—	1260	—	—
Tamper-Resistant Toggle	20 A	—	—	—	1257-L	—	—	—
<b>DOUBLE POLE, DOUBLE THROW, CENTER OFF</b>								
Toggle	30 A	—	—	—	—	1262	—	—

# Wallplates

Leviton offers one of the widest selections of toggle switch wall plates in the industry. From single- to ten-gang, nylon to stainless steel and painted metal, and special purpose locking and tamper-resistant styles, we've got your switches covered.



80141-40



80709-1



84001-40

Description	Color	NYLON		METAL			
		Standard	Midway	Material	Standard	Midway	Oversize
1-Gang	White	80701-W	PJ1-W	Type 302 SS (non-mag)	84001-40	SSJ1-40	84001-40
	Ivory	80701-I	PJ1-I	Type 430 SS	84001	—	84101
	Gray	80701-GY	PJ1-GY	Aluminum	83001	—	—
	Black	80701-E	PJ1-E	Chrome	1901	—	—
	Brown	80701	PJ1	Painted Metal	See custom order form pg 40		
2-Gang	White	80709-W	PJ2-W	Type 302 SS (non-mag)	84009-40	SSJ2-40	84009-40
	Ivory	80709-I	PJ2-I	Type 430 SS	84009	—	—
	Gray	80709-GY	PJ2-GY	Aluminum	83009	—	—
	Black	80709-E	PJ2-E	Chrome	1909	—	—
	Brown	80709	—	Painted Metal	See custom order form pg 40		
3-Gang	White	80711-W	PJ3-W	Type 302 SS (non-mag)	84011-40	SSJ3-40	84011-40
	Ivory	80711-I	PJ3-I	Type 430 SS	84011	—	—
	Gray	80711-GY	—	Aluminum	83011	—	—
	Black	80711-E	PJ3-E	Chrome	1911	—	—
	Brown	80711	PJ3	Painted Metal	See custom order form pg 40		

# Special Purpose Wallplates



84001-LOK



84071-40



COVER-GS

Description	Cat No
<b>Lockout Wall Plate, Type 302 SS</b> - includes tamper-resistant screws and spanner wrench (lock not included)	84001-LOK
<b>Wall Plate for Key Locking Switches, Type 302 SS, 1-gang</b> - includes tamper-resistant screws and spanner wrench	84071-40
<b>Wall Plate for Key Locking Switches, Type 302 SS, 2-gang</b> - includes tamper-resistant screws and spanner wrench	84072-40
<b>Wall Plate for Key Locking Switches, Type 302 SS, 3-gang</b> - includes tamper-resistant screws and spanner wrench	84073-40
<b>Wetguard® Watertight (IP66, NEMA 4X) Toggle Switch Cover, FS/FD mount, Yellow</b> - for use with 15-40 A toggle switches	COVER-S
<b>Wetguard® Watertight (IP66, NEMA 4X) Toggle Switch Cover, FS/FD mount, Gray</b> - for use with 15-40 A toggle switches	COVER-GS

Custom wallplates, up to twelve gangs in size, made of brass, stainless steel, painted steel, aluminum or chrome, can be special ordered from Leviton. Any combination of the configurations shown can be specified to meet your needs. In addition, standard and custom metal wallplates can be engraved, and standard nylon wallplates can be hot stamped, with the message of your choice.

Please refer to ordering instructions on page 44.



# Antimicrobial Treated Devices

Antimicrobial treated switches and wallplates are designed to help protect against the growth and spread of bacteria on the devices' surfaces. The 20 Amp toggle switches and stainless steel wallplates are protected with material comprising an EPA registered additive but are only visually differentiated by the Leviton logo and antimicrobial symbol.

## Features and Benefits:

- Touch surfaces are completely protected with antimicrobial material
- Antimicrobial materials have been independently lab tested and proven to inhibit 99.9% of bacterial growth
- Standard design and variety of colors allows for seamless integration in public areas with minimal aesthetic disruption
- Available in standard AC toggle switches, Lev-Lok® modular toggle switches and stainless steel wallplates



A1223-2R  
3-Way Toggle



AM120-W Lev-Lok® Single Pole Toggle  
with 84001-A40 Wallplate

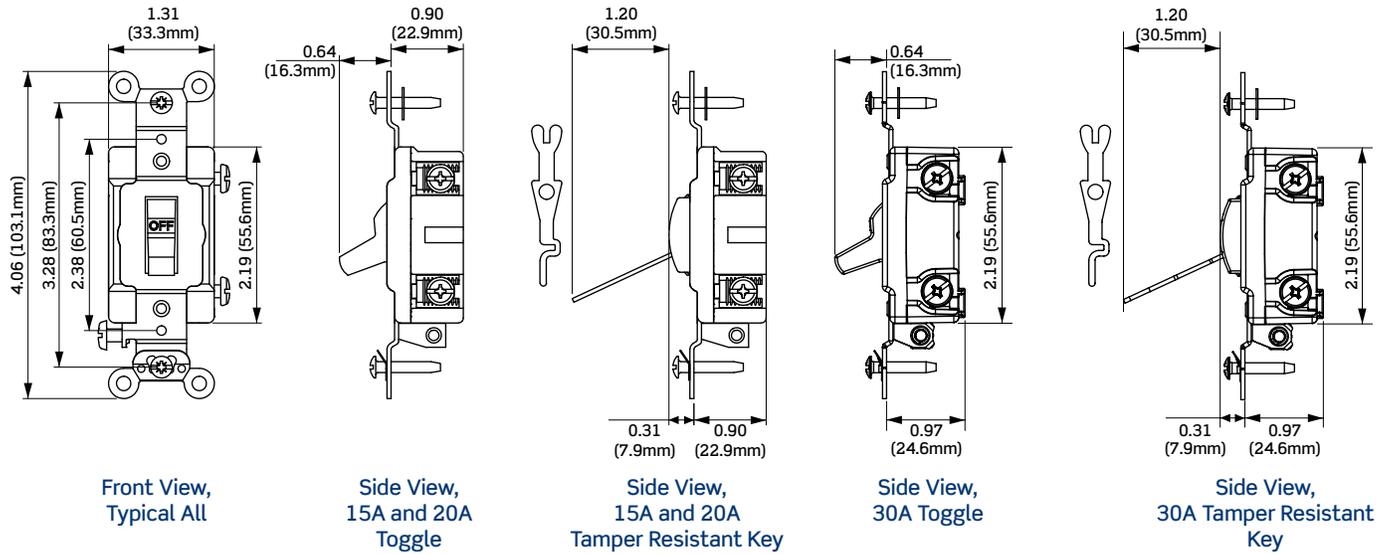
ANTIMICROBIAL TREATED SWITCHES • 20 A, 120/277 V AC				
Description	White	Ivory	Red	Gray
Toggle, Single Pole	A1221-2W	A1221-2I	A1221-2R	A1221-GY
Toggle, 3-Way	A1223-2W	A1223-2I	A1223-2R	A1223-GY
Lev-Lok® Toggle, Single Pole	AM120-W	AM120-I	AM120-R	AM120-GY
Lev-Lok® Toggle, 3-Way	AM320-W	AM320-I	AM320-R	AM320-GY
ANTIMICROBIAL TREATED WALLPLATES				
Description	Color		Cat. No.	
1-Gang Toggle	Clear (Stainless Steel)		84001-A40	
2-Gang Toggle	Clear (Stainless Steel)		84009-A40	
1-Gang Engraved EMERGENCY Toggle	Clear (Stainless Steel)		84001-E4A	
WIRING MODULES FOR LEV-LOK® MODULAR SWITCHES				
Description	Module Color	Lead Length	Cat. No.	
For Single Pole 20 A, 347 V AC Max. Switches	Stranded Wire Leads #12	Yellow	6"	MSPSW-ST
	Solid Wire Leads #12	Yellow	6"	MSPSW-SD
For 3-Way 20 A, 347 V AC Max. Switches	Stranded Wire Leads #12	Yellow	6"	M3WSW-ST
	Solid Wire Leads #12	Yellow	6"	M3WSW-SD

# Specifications

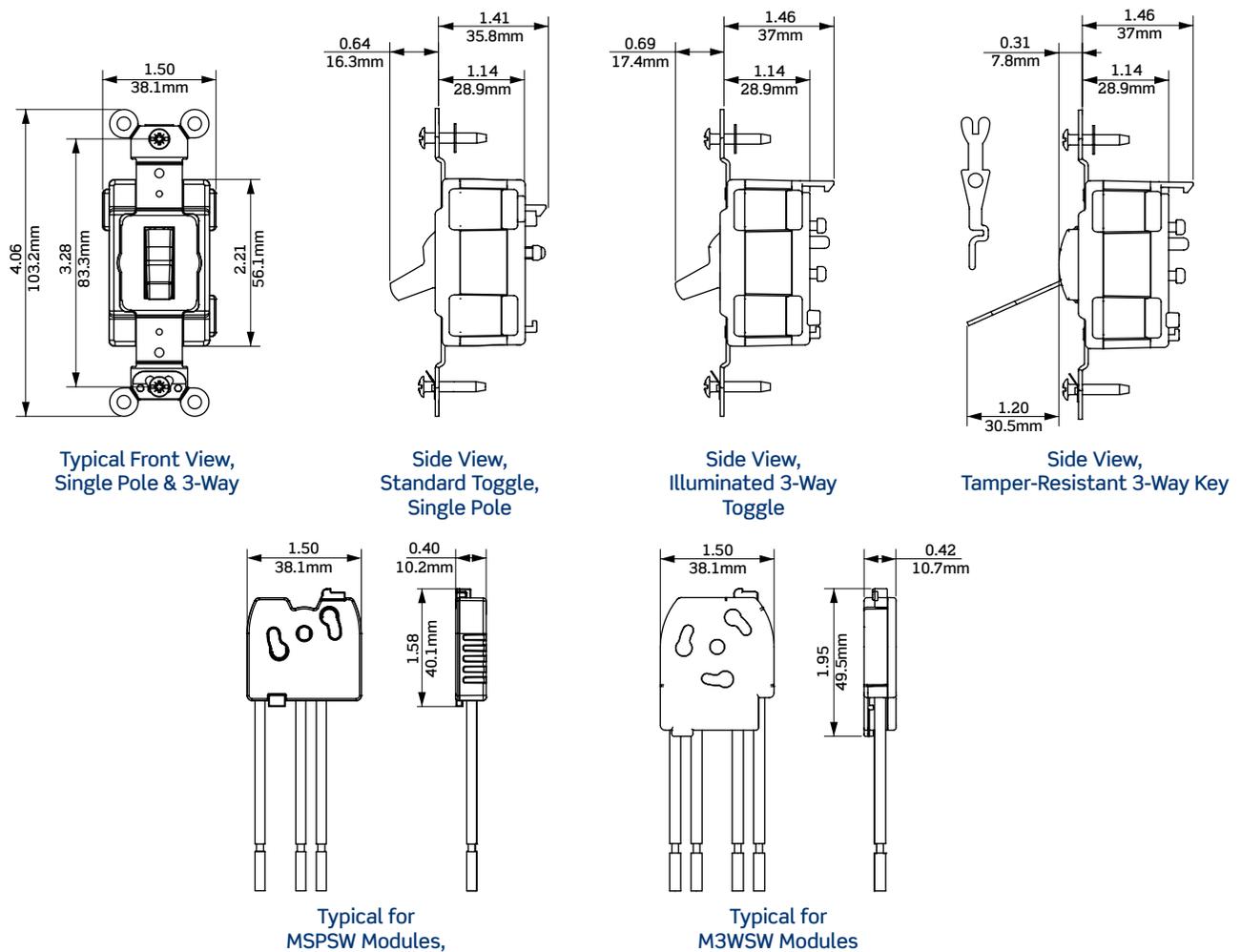
Description	ON/OFF SWITCHES						MOMENTARY/ MAINTAINED CONTACT								
	Toggle			Tamper-Resistant			Pilot Light/ Lighted Handle			Toggle			Tamper-Resistant		
<b>AC Horsepower Ratings</b>															
At Rated Voltage	Amp	120 V	240 V	Amp	120 V	240 V	Amp	120 V	240 V	Amp	120 V	240 V	Amp	120 V	240 V
	15	1 hp	2 hp	15	1 hp	2 hp	15	1 hp	2 hp	15	1 hp	2 hp	15	1 hp	2 hp
	20	1½ hp	2 hp	20	1½ hp	2 hp	20	1½ hp	2 hp	20	1½ hp	2 hp	20	1½ hp	2 hp
	30	2 hp	2 hp	30	2 hp	2 hp	30	2 hp	2 hp	30	2 hp	2 hp	30	2 hp	2 hp
<b>Material Specifications</b>															
Strap	Galvanized Steel			Galvanized Steel			Galvanized Steel			Nickel-Plated Steel			Nickel-Plated Steel		
Base	PBT			PBT			PBT			Modified PET			Modified PET		
Cover	Nylon			Nylon			Nylon			Modified PET			Modified PET		
Contacts	Silver Alloy			Silver Alloy			Silver Alloy			Silver Alloy			Silver Alloy		
Terminal Screws	Brass			Brass			Brass			Brass			Brass		
Grounding Screw	Plated Steel			Plated Steel			Plated Steel			Plated Steel			Plated Steel		
Ground Clip	Brass			Brass			Brass			—			—		
Toggle	Polycarbonate (Pertains to all except Antimicrobial Switches)  Antimicrobial Urea (Antimicrobial Switches)			—			Polycarbonate			Polycarbonate			—		
Dome	—			Nylon			—			—			Nylon		
<b>Electrical Specifications</b>															
Voltage	120/277 V AC			120/277 V AC			120/277 V AC1			120/277 V AC			120/277 V AC		
Amperage	Available in 15 A, 20 A and 30 A, as specified			Available in 15 A, 20 A and 30 A, as specified			Available in 15 A, 20 A and 30 A, as specified			Available in 15 A, 20 A and 30 A, as specified			Available in 15 A, 20 A and 30 A, as specified		
Dielectric Voltage	Withstands 1500 V for 1 minute			Withstands 1500 V for 1 minute			Withstands 1500 V for 1 minute			Withstands 1500 V for 1 minute			Withstands 1500 V for 1 minute		
Overload (UL 20)	100 cycles of OL at 4.8 times rated current			100 cycles of OL at 4.8 times rated current			100 cycles of OL at 4.8 times rated current			100 cycles of OL at 4.8 times rated current			100 cycles of OL at 4.8 times rated current		
Temperature Rise	Maximum 30 °C rise			Maximum 30 °C rise			Maximum 30 °C rise			Maximum 30 °C rise			Maximum 30 °C rise		
Endurance	50,000 cycles min.			50,000 cycles min.			50,000 cycles min.			50,000 cycles min.			50,000 cycles min.		
<b>Environmental Specifications</b>															
Flammability	Rated V-2 per UL94			Rated V-2 per UL94			Rated V-2 per UL94			Rated V-2 per UL94			Rated V-2 per UL94		
Operating Temperature	-40 °C to 65 °C			-40 °C to 65 °C			-40 °C to 65 °C			-40 °C to 65 °C			-40 °C to 65 °C		
<b>Mechanical Specifications</b>															
Terminal Accommodation	14-#10 AWG back-wired; #14-#12 AWG side-wired			14-#10 AWG back-wired; #14-#12 AWG side-wired			14-#10 AWG back-wired; #14-#12 AWG side-wired			14-#10 AWG back-wired; #14-#12 AWG side-wired			14-#10 AWG back-wired; #14-#12 AWG side-wired		
Terminal Screw Torque	12 to 14 inch pounds			12 to 14 inch pounds			12 to 14 inch pounds			12 to 14 inch pounds			12 to 14 inch pounds		
Terminal ID	Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral			Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral			Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral			Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral			Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral		
Prodcut ID	Ratings permanently marked on device			Ratings permanently marked on device			Ratings permanently marked on device			Ratings permanently marked on device			Ratings permanently marked on device		
<b>Standards and Certifications</b>															
NEMA	WD 1 & WD 6			WD 1 & WD 6			WD 1 & WD 6			WD 1 & WD 6			WD 1 & WD 6		
UL Fed Spec	W-S-896			W-S-896			W-S-896			W-S-896			W-S-896		
UL Standard	UL 20			UL 20			UL 20			UL 20			UL 20		
NOM	NOM-ANCE			NOM-ANCE			NOM-ANCE			NOM-ANCE			NOM-ANCE		
CSA	C22.2 No.111			C22.2 No.111			C22.2 No.111			C22.2 No.111			C22.2 No.111		
<b>Warranty</b>															
Product Warranty	10-year Limited			10-year Limited			10-year Limited			10-year Limited			10-year Limited		

# Dimensional Diagrams

## Typical for Extra Heavy Duty Toggle Switches

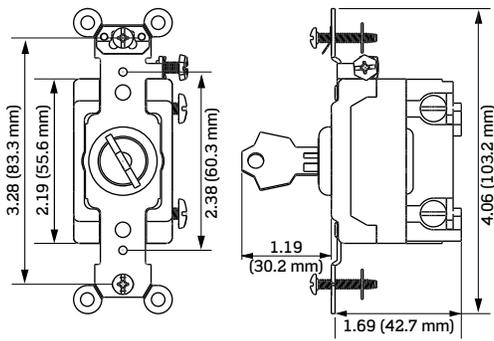


## Lev-Lok Modular Toggle Switches

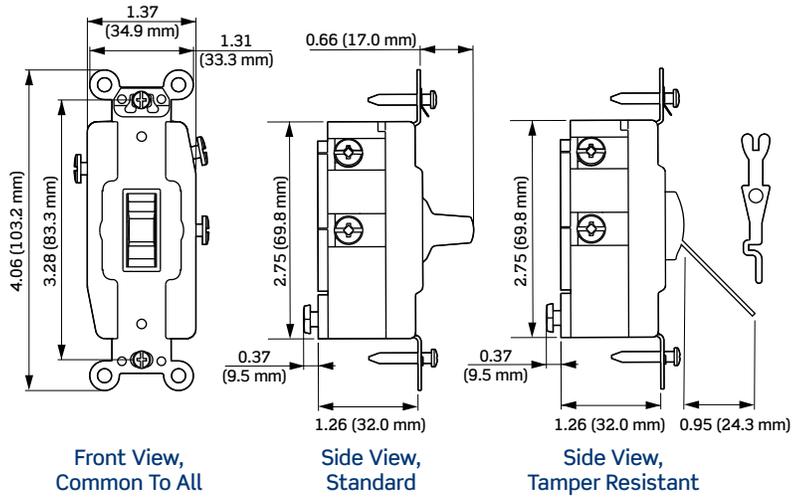


# Dimensional Diagrams

## Key Locking Toggle Switches

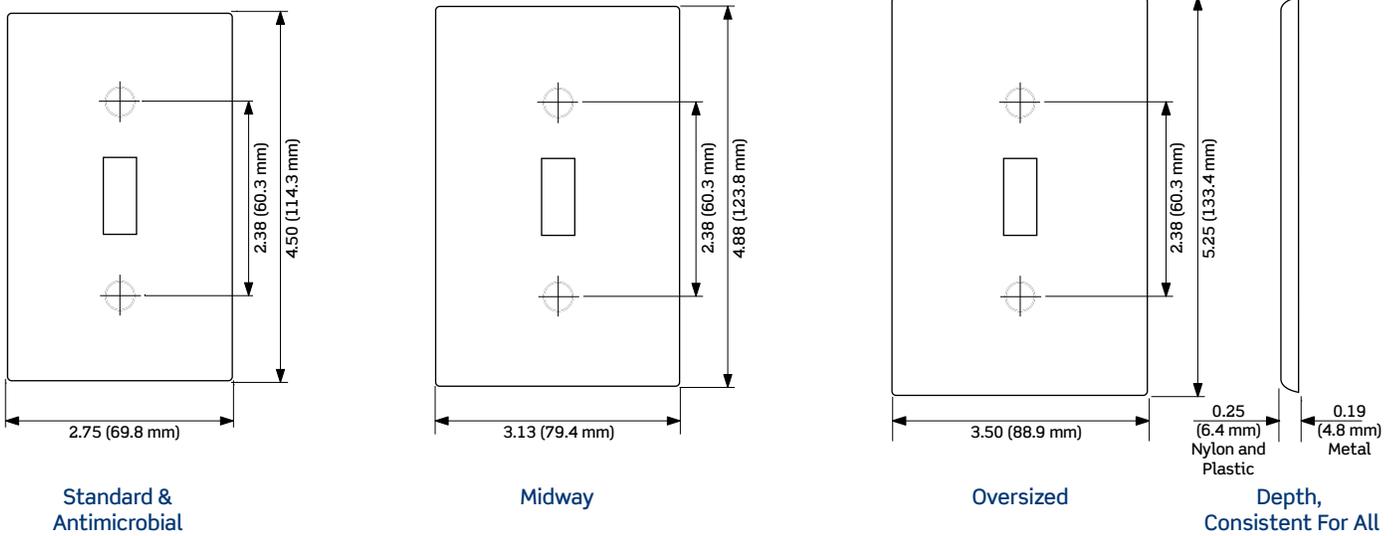


## Maintained & Momentary Contact Toggle Switches

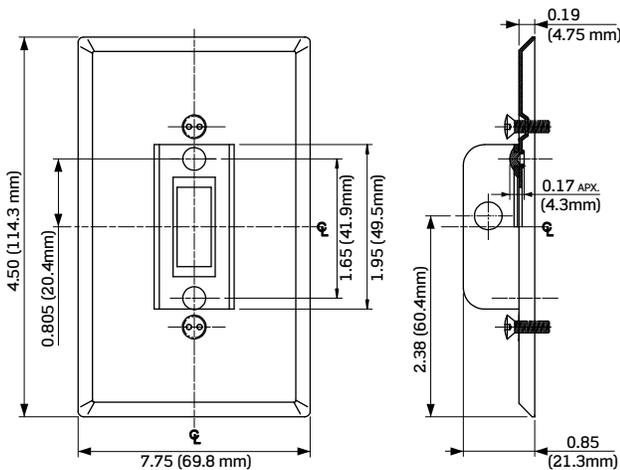


## Standard Wallplates

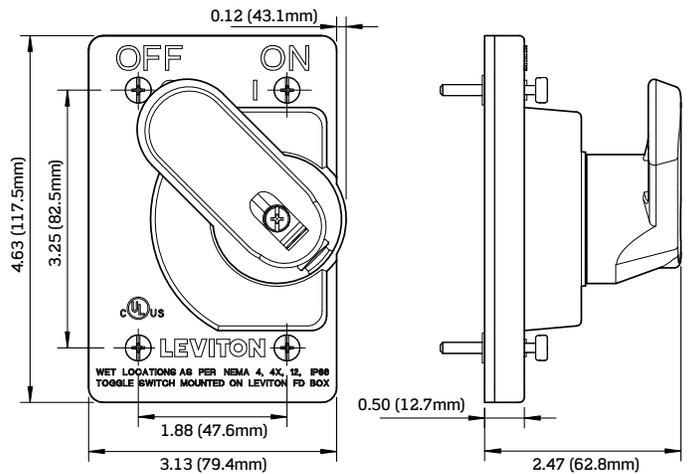
NOTE: Add 1.81" (46.0mm) to width for each additional gang



## Lockout Wallplate

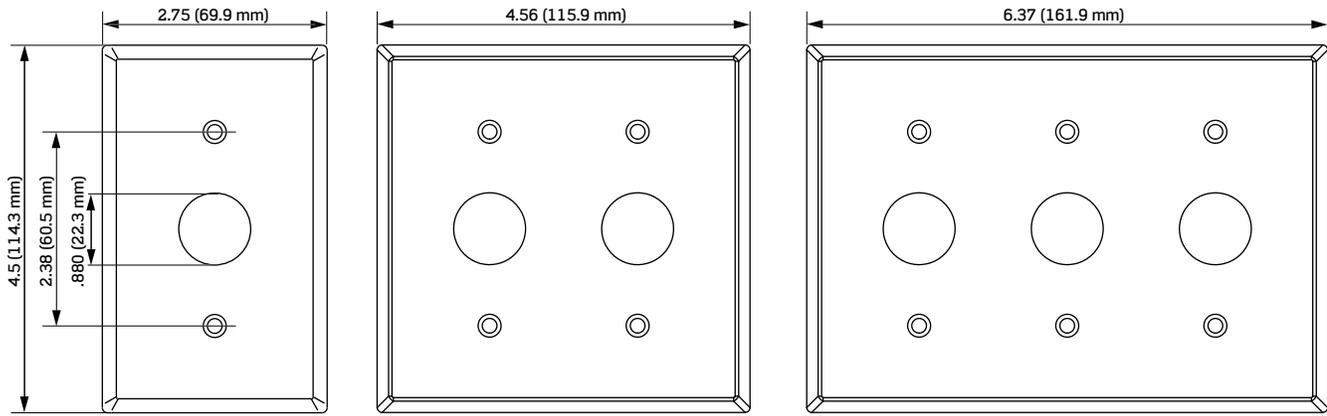


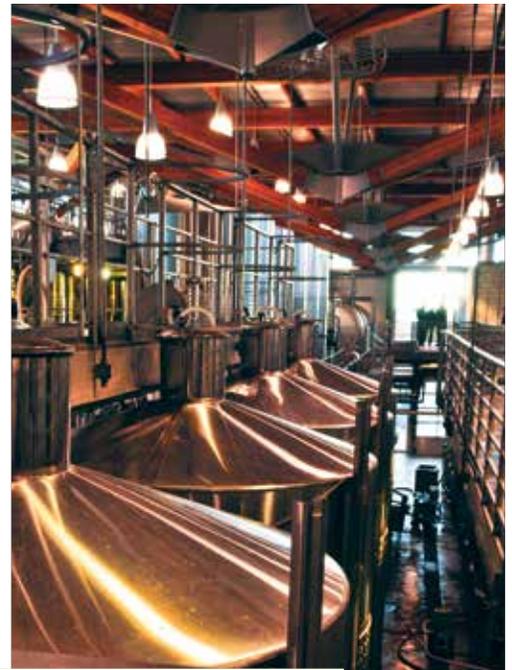
## Wetguard® Watertight Toggle Switch Cover



# Dimensional Diagrams

## Key Locking Toggle Wallplates





## Section 2 Manual Motor Controllers

## powerswitch® manual motor controllers

The Powerswitch® line of industrial grade AC Manual Motor Controllers provide safe, reliable control of a variety of motor loads. Suitable for use as motor disconnect\*, these switches are available for both single-phase and three-phase applications, with a continuous current rating at voltages up to 600 V AC and maximum horsepower ratings of 30 hp. Metallic and non-metallic enclosures are available, including NEMA Type 1, Type 3R, and Type 4X, to suit a wide variety of applications.

### Features and Benefits:

- All molded parts are thermoplastic to resist impact, chemicals, temperature, tracking and arcing
- Cam-driven mechanism enhances fast-make/slow-break
- Silver-alloy contacts for maximum conductivity and service life
- 30 A and 40 A switches feature external clamps for back and side wiring; 60 A switches available in front-wire or back-wire versions
- Insulating barrier between terminals provide isolation between phases
- Nickel-plated brass mounting strap, terminal screw and external clamps for superior strength and corrosion resistance
- Oversized toggle provides positive actuation, even with gloved hand
- Short toggle versions (DSS) available in 30 A and 40 A for when shorter depth is required
- Listed to UL 60947-4-1 (formerly UL 508)
- Backed by a Limited Ten-Year Warranty



MS403-DS



MS603-FW



MS302-DS



MS303-DSS

\* 30 A & 40 A only

## Component Switches

Switch Type	Rating	Poles	AC Horsepower Rating (hp)				Toggle Type	Wiring	Cat No
			120 V	240 V	480 V	600 V			
Manual Motor Controller Suitable as Motor Disconnect	30 A	2-Pole (1Ø)	2	5	10	15	Standard	Back/Side	MS302-DS
			2	5	10	15	Short	Back/Side	MS302-DSS
		3-Pole (3Ø)	3	7½	15	20	Standard	Back/Side	MS303-DS
			3	7½	15	20	Short	Back/Side	MS303-DSS
	40 A	2-Pole (1Ø)	2	5	10	15	Standard	Back/Side	MS402-DS
		3-Pole (3Ø)	3	7½	15	20	Standard	Back/Side	MS403-DS
Manual Motor Controller	60 A	2-Pole (1Ø)	—	10	15	20	Standard	Back	MS602-BW
			—	10	15	20	Standard	Front	MS602-FW
		3-Pole (3Ø)	—	10	25	30	Standard	Back	MS603-BW
			—	10	25	30	Standard	Front	MS603-FW

## Enclosed Switches

Switch Type	Rating	Poles	AC Horsepower Rating (hp)				Toggle Type	Enclosure	Cat No
			120 V	240 V	480 V	600 V			
Manual Motor Controller Suitable as Motor Disconnect	30 A	2-Pole (1Ø)	2	5	10	15	Standard	Type 1 Metal	N1302-DS
			2	5	10	15	Pistol Grip	Type 3R Metal	N3302-DS
			2	5	10	15	Pistol Grip	Type 4X Non-Metallic	MS4X-302†
		3-Pole (3Ø)	3	7½	15	20	Standard	Type 1 Metal	N1303-DS
			3	7½	15	20	Standard	Type 1 Non-Metallic	N1303-TDS
			3	7½	15	20	Pistol Grip	Type 3R Metal	N3303-DS
	40 A	2-Pole (1Ø)	2	5	10	15	Pistol Grip	Type 4X Non-Metallic	MS4X-402†
		3-Pole (3Ø)	3	7½	15	20	Pistol Grip	Type 4X Non-Metallic	MS4X-403†
Manual Motor Controller	60 A	2-Pole (1Ø)	—	10	15	20	Pistol Grip	Type 3R Metal	N3602
		3-Pole (3Ø)	—	10	25	30	Pistol Grip	Type 3R Metal	N3603

▶ Accessories and replacement parts listed on page 43.

**NSF** † MS4X Series Disconnects are NSF Certified

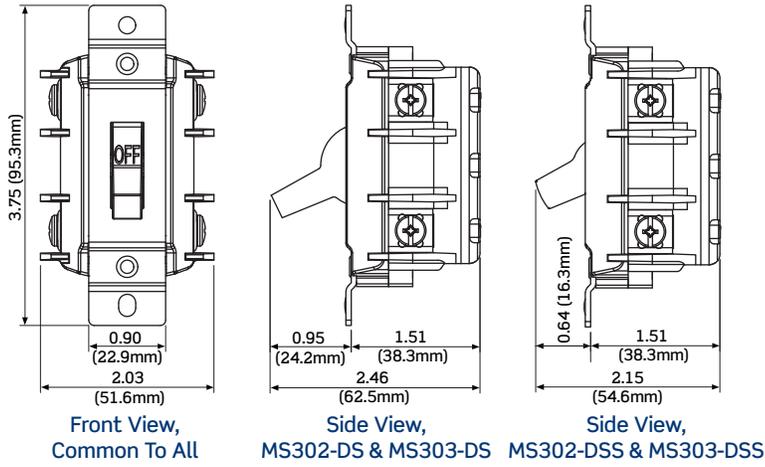


## Specifications

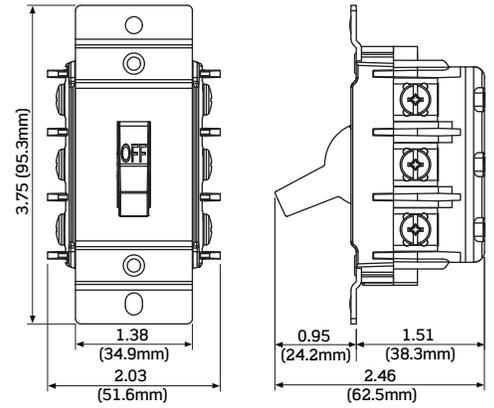
Catalog Number	MS302/MS303	MS402/MS403	MS602/MS603
<b>Material Specifications</b>			
Strap	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass
Base	PBT Polyester	PBT Polyester	PBT Polyester
Cover	PBT Polyester	PBT Polyester	PBT Polyester
Contacts	Silver Alloy	Silver Alloy	Silver Alloy
Terminal Screws	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass
Toggle	PBT Polyester	PBT Polyester	PBT Polyester
<b>Electrical Specifications</b>			
Rating	30 A - 600 V AC	40 A - 600 V AC	60 A - 600 V AC
Dielectric Voltage	2200 V for 1 minute	2200 V for 1 minute	2200V for 1 minute
Overload	50 cycles of OL at 6 times FLA (full-load motor-running current)	50 cycles of OL at 6 times FLA (full-load motor-running current)	50 cycles of OL at 6 times FLA (full-load motor-running current)
Temperature Rise	Maximum 50 °C rise	Maximum 50 °C rise	Maximum 50 °C rise
Endurance	6000 cycles of inductive motor type load	6000 cycles of inductive motor type load	6000 cycles of inductive motor type load
Short Circuit Current Rating (SCCR)	10,000 RMS symmetrical amps, 600 V AC max. when protected by a 30 A time delay fuse	10,000 RMS symmetrical amps, 600 V AC max. when protected by a 30 A time delay fuse	5,000 RMS symmetrical amps, 600 V AC max.
<b>Environmental Specifications</b>			
Flammability	Rated V-0 per UL94	Rated V-0 per UL94	Rated V-0 per UL94
Operating Temperature	-40 °C to 60 °C	-40 °C to 60 °C	-40 °C to 60 °C
<b>Mechanical Specifications</b>			
Terminal Accommodation	#10 AWG; #8 AWG with ring terminal	#10 AWG; #8 AWG with ring terminal	#10 - #4 AWG
Terminal Screw Torque	20 inch pounds	20 inch pounds	25 inch pounds
Terminal ID	T1, T2, T3, L1, L2, L3 marked on device	T1, T2, T3, L1, L2, L3 marked on device	T1, T2, T3, L1, L2, L3 marked on device
Product ID	Ratings permanently marked on device	Ratings permanently marked on device	Ratings permanently marked on device
<b>Standards and Certifications</b>			
NEMA	WD1 & WD6	WD1 & WD6	WD1 & WD6
UL Standard	cULus Listed to UL 60947-4-1 (supersedes UL 508)	cULus Listed to UL 60947-4-1 (supersedes UL 508)	cULus Listed to UL 60947-4-1 (supersedes UL 508)
NOM	NOM-ANCE	NOM-ANCE	NOM-ANCE
<b>Warranty</b>			
Product Warranty	10-year Limited	10-year Limited	10-year Limited

# Dimensional Diagrams

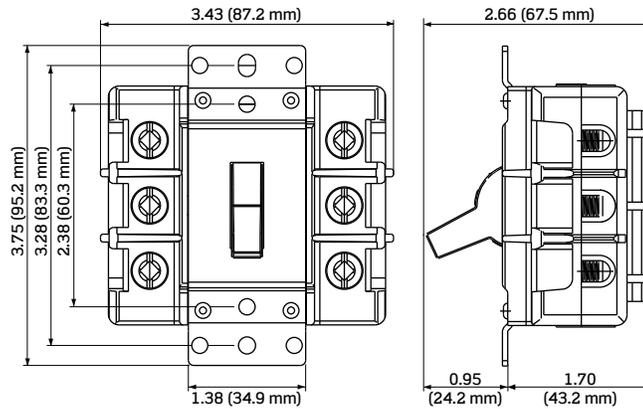
Typical for MS403-DS, MS402-DS, MS302-DSS & MS303-DSS



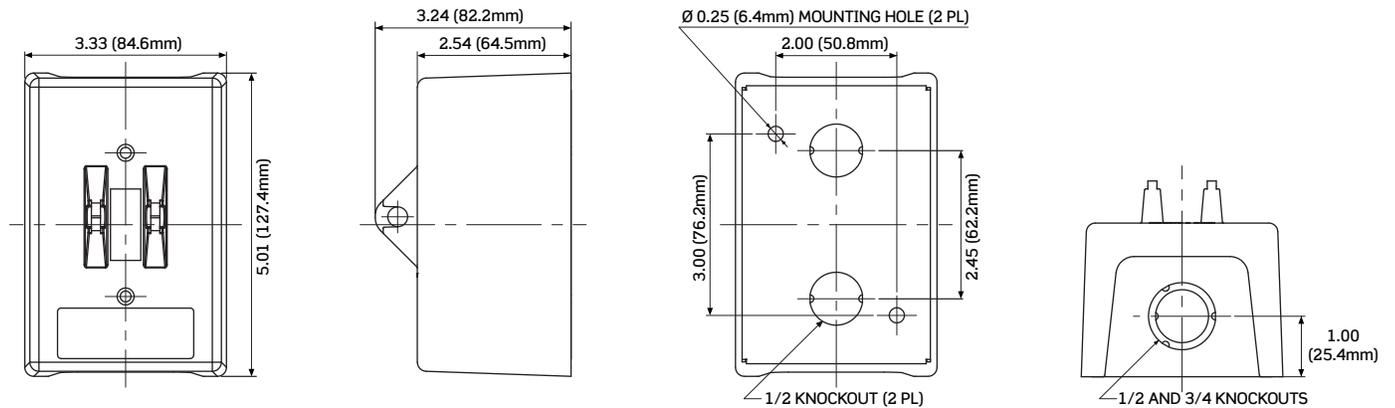
Typical for MS403-DS & MS402-DS



Typical for MS602-BW, MS603-BW, MS602-FW & MS603-FW

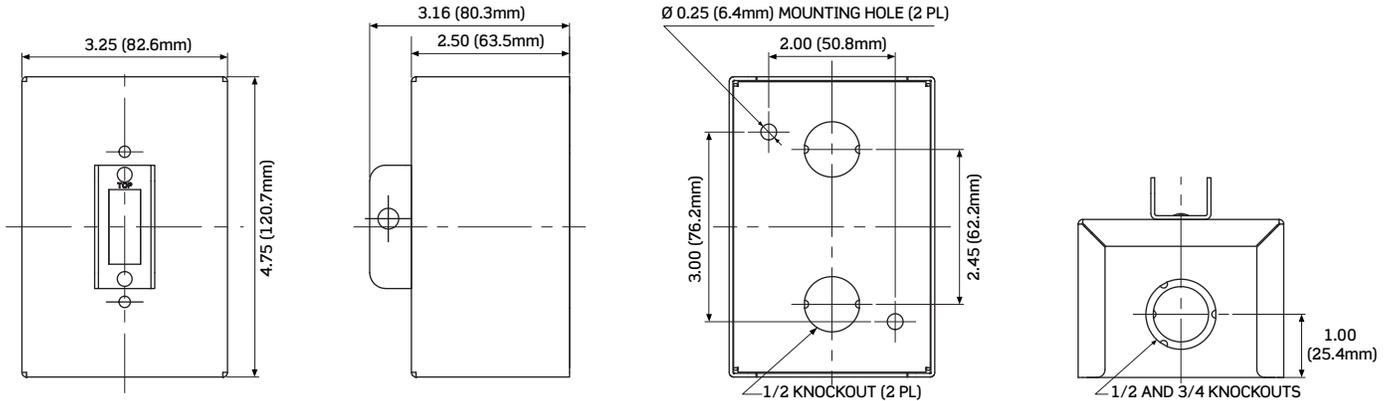


Typical for N1303-TDS & N13NC-TDS

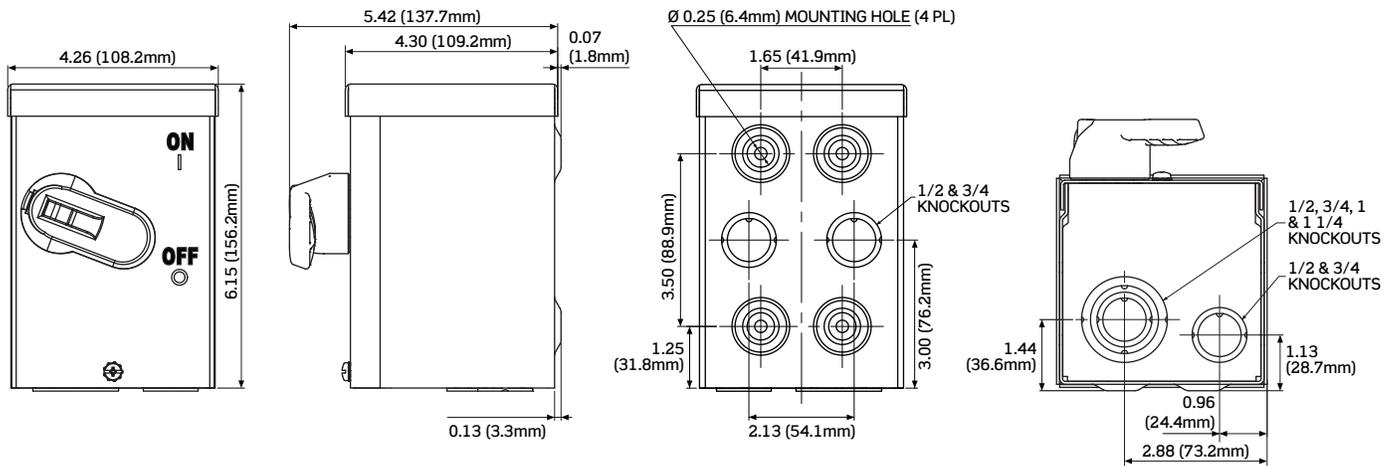


# Dimensional Diagrams

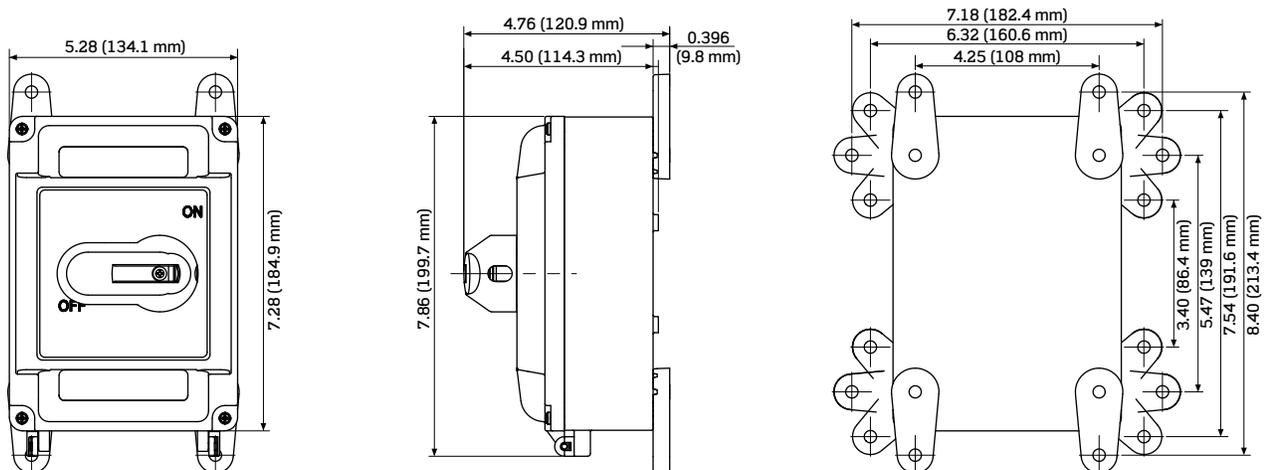
Typical for N1302-DS, N1303-DS & N13NC-DS



Typical for N3302-DS, N3303-DS & N33NC-DS



Typical for MS4X-302, MS4X-303, MS4X-402 & MS4X-403





# Section 3 Safety Disconnect Switches

# Enclosed 30 A Non-Fused Safety Disconnect Switches

## powerswitch® safety disconnect switches

Powerswitch 30 Amp, Non-Fused Safety Disconnect Switches from Leviton are designed for superior performance in food and beverage processing facilities, factories and plants, marinas and shipyards, and are especially ideal for areas requiring heavy washdown and with corrosive elements. Heavy duty enclosed safety disconnect switches cut power to the circuit for equipment servicing and are designed to withstand higher short circuit currents than manual motor controllers. The design of the 30 A disconnect switches has been certified as easily cleanable, corrosion-resistant and fit for use in food processing facilities by NSF International.

### Features & Benefits:

- Watertight and dust-tight rated to IP66 and IP67 and NEMA Type 3R, 4X and 12K Standards
- Pistol-grip styled handle is easy to operate and provides OSHA compliant lockout/tagout capabilities
- Includes one factory-installed auxiliary contact (NO – 10A); a second can be added (NO or NC)
  - ideal for use with Variable Frequency Drives (VFDs)
- High visibility circuit ID label provides ample room to record circuit identification information
- Handle, switch and auxiliary contacts are easily replaceable



These Safety Disconnect Switches are certified to NSF International hygiene requirements for food & beverage processing to help ensure public health and safety. Manufacturers, regulators and consumers look to NSF International for the development of public health standards and certification programs that help protect the world's food, water, consumer products and environment.

### Safety Disconnect Switches

Amp	AC Horsepower Rating (hp)							Cat No	Description
	SINGLE PHASE				THREE PHASE				
	110 V AC	208 to 240 V AC	480 V AC	600 V AC	208 to 240 V AC	480 V AC	600 V AC		
30 A	2	5	10	—	10	20	25	DS30-AX	Non-Fused, Non-metallic Enclosure
	2	5	10	—	10	20	25	MDS30-AX	Non-Fused, Stainless Steel Enclosure

▶ Accessories and replacement parts listed on page 43.



DS30-AX



**Non-metallic enclosure features:**

- Impact-resistant PBT, also resistant to water, harsh chemicals and UV exposure resulting in extended service life
- Exclusive bottom-hinged cover that provides unfettered access without the need for removal
- Captive cover hardware will not fall out when cover is open
- Mounting feet provide 3/8" clearance from the mounting surface to conform to NEC Article 300.6
- Seven shallow dimples to simplify drilling for conduit entry



MDS30-AX

**Stainless steel enclosure features:**

- 16 gauge Type 304 non-magnetic stainless steel offers greater corrosion resistance
- Exclusive side-hinged removable door makes installation and servicing quick and easy
- Mounting feet are welded on and provide 3/4" clearance from the mounting surface – the most room in the industry to allow for complete sanitizing washdown and visual inspection once installed
- Handle with three provisions for padlocks for OSHA compliance
- 10 extra-shallow dimple locations simplify drilling for conduit entry

## powerswitch® safety disconnect switches

Powerswitch Safety Disconnect Switches are the ideal choice for industrial environments with particulate laden air, outdoor exposure and washdown requirements. Built to withstand the rigors of these harsh environments without being vulnerable to failure, these devices address the needs of safety, reduced downtime and code compliance.

### Features and Benefits:

- Available in fused and non-fused configurations up to 100 A
- Fused models accept "Class J" fuses (not included)
- EDSR-23 includes integral receptacle bracket; accepts 20 A and 30 A single locking receptacles



DS60-AX



DS100-AX



EDSR-23

## Safety Disconnect Switches

Amp	AC Horsepower Rating (hp)							Cat No	Description
	SINGLE PHASE				THREE PHASE				
	110 V AC	208 to 240 V AC	480 V AC	600 V AC	208 to 240 V AC	480 V AC	600 V AC		
30 A	2	3	7½	—	7½	15	20	DS30-FAX	Fused, Non-metallic Enclosure
60 A	2	10	20	20	20	40	40	DS60-AX	Non-Fused, Non-metallic Enclosure
	*	*	N/R	*	15	30	50	DS60-FAX	Fused, Non-metallic Enclosure
100 A	5	15	25	20	25*	50	50	DS100-AX	Non-Fused, Non-metallic Enclosure
20 A / 30 A	See ordering table on page 35							EDSR-23	Non-fused, Non-Metallic Enclosure, with receptacle bracket for use with any 20 A / 30 A locking single receptacle (not included)

\* Consult Factory

\* 30(240 V AC)

Accessories and replacement parts listed on page 43.



## Specifications

Catalog Number	DS30-AX, DS60-FAX	MDS30-AX
<b>Electrical Specifications</b>		
Amperage	30 A	30 A
Voltage	600 V	600 V
Current Interrupting	Certified for full-rated current and voltage	Certified for full-rated current and voltage
Dielectric Voltage	1000 V plus twice rated voltage for 1 minute	1000 V plus twice rated voltage for 1 minute
Endurance	6000 operations at rated current and voltage (Power factor 0.75 to 0.80)	6000 operations at rated current and voltage (Power factor 0.75 to 0.80)
Short Circuit Current Rating (SCCR)	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps
<b>Environmental Specifications</b>		
Flammability	Rated V-2 or better per UL94; V-0 for watertight enclosure	Rated V-2 or better per UL94; V-0 for watertight enclosure
Operating Temperature	-40 °C to 60 °C	-40 °C to 60 °C
UV Resistance	Exposed materials are UV stabilized	Exposed materials are UV stabilized
<b>Material Specifications</b>		
Enclosure	PBT	16 Gauge Type 304 Stainless Steel
Handle	PBT	Polycarbonate
Enclosure Screws	Stainless Steel	Stainless Steel
Enclosure Gasket	Silicone Foam	Silicone Foam
Mounting Feet	PBT	12 Gauge Type 304 Stainless Steel
<b>Mechanical Specifications</b>		
Terminal Identification	In accordance with UL and international conventions	
Product Identification	Ratings are permanently marked on device	
Terminal Accommodation	#14-#8 AWG	
Impact Resistance	Non-metallic: In accordance with UL 746C	
<b>Standards &amp; Certifications</b>		
NSF	14159-1 Meat & Poultry Processing Equipment	
NEMA	WD 1 & WD 6	
UL Standard	Listed to UL 60947-4-1 (supersedes UL 508)	
NOM	NOM-ANCE	
IEC	947-3	
<b>Warranty</b>		
Product Warranty	2- Year Limited	

## Specifications

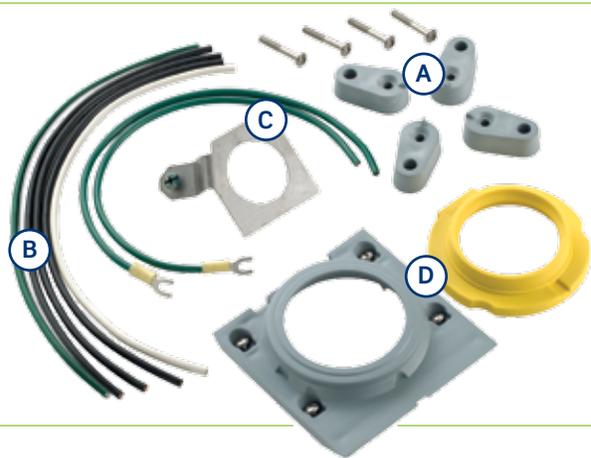
Catalog Number	DS60	DS100
<b>Electrical Specifications</b>		
Amperage	60 A	100 A
Voltage	Up to 600 V AC	Up to 600 V AC
Current Interrupting	Certified for full-rated current and voltage	Certified for full-rated current and voltage
Dielectric Voltage	1000 V plus twice rated voltage for 1 minute	1000 V plus twice rated voltage for 1 minute
Endurance	6000 operations at rated current and voltage (Power factor 0.75 to 0.80)	6000 operations at rated current and voltage (Power factor 0.75 to 0.80)
Short Circuit Current Rating (SCCR)	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps
<b>Environmental Specifications</b>		
Flammability	V-2 per UL 94	V-2 per UL 94
Operating Temperature	-40 °C to 60 °C	-40 °C to 60 °C
UV Resistance	Exposed plastic materials are UV stabilized	Exposed plastic materials are UV stabilized
<b>Material Specifications</b>		
Enclosure	PBT	
Handle	PBT	
Enclosure Screws	Stainless Steel	
Enclosure Gasket	Silicone Foam	
Mounting Feet	PBT	
<b>Mechanical Specifications</b>		
Terminal Identification	In accordance with UL and international conventions	
Product Identification	Ratings are permanently marked on device	
Terminal Accommodation	#14-#8 AWG	
Impact Resistance	In accordance with UL 746C	
<b>Standards &amp; Certifications</b>		
NEMA	WD 1 & WD 6	
UL Standard	Listed to UL 60947-4-1 (supersedes UL 508)	
IEC	947-3	
<b>Warranty</b>		
Product Warranty	2- Year Limited	

## Specifications

Catalog Number	EDSR-23
<b>Electrical Specifications</b>	
Amperage	Up to 30 A
Voltage	Up to 600 V AC
Current Interrupting	Certified for full-rated current and voltage
Dielectric Voltage	1000 V plus twice rated voltage for 1 minute
Endurance	6000 operations at rated current and voltage (Power factor 0.75-0.80)
Short Circuit Current Rating (SCCR)	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps
<b>Environmental Specifications</b>	
Flammability	V-2 per UL 94
Operating Temperature	-40 °C to 60 °C
UV Resistance	Exposed plastic materials are UV stabilized
<b>Material Specifications</b>	
Enclosure	PBT
Handle	PBT
Enclosure Screws	Stainless Steel
<b>Mechanical Specifications</b>	
Terminal Identification	In accordance with UL and international conventions
Product Identification	Ratings are permanently marked on device
Terminal Accommodation	#14-#8 AWG
Impact Resistance	In accordance with UL 746C
<b>Standards &amp; Certifications</b>	
NEMA	WD 1 & WD 6
UL Standard	Listed to UL 60947-4-1 (supersedes UL 508)
IEC	947-3
<b>Warranty</b>	
Product Warranty	2-year Limited

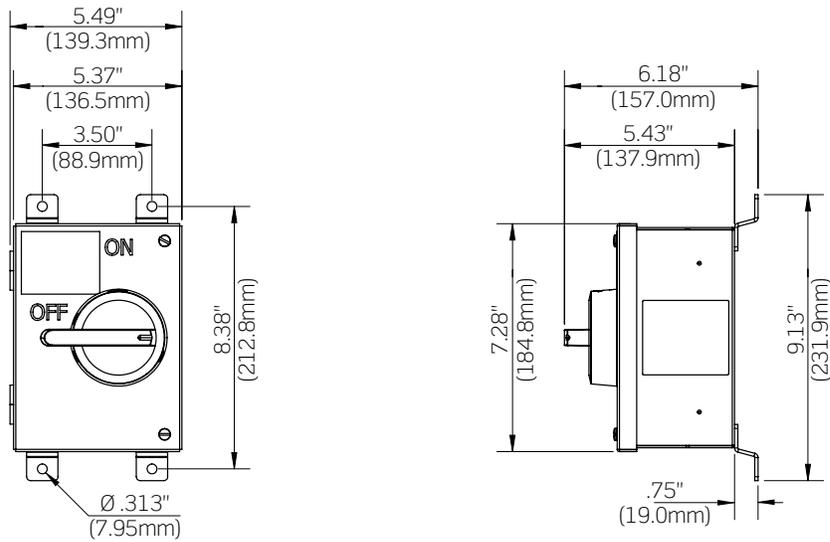
### Every Powerswitch® EDSR-23 Safety Disconnect Switch is supplied with:

- A) 4 gray mounting feet & 4 screws
- B) Extra wire accommodates all receptacle to switch connections (1-white, 1-green, 3-black)
- C) 2 green wires and ground bracket
- D) Wetguard® seal package for use with corrosion resistant receptacles and Wetguard® plugs

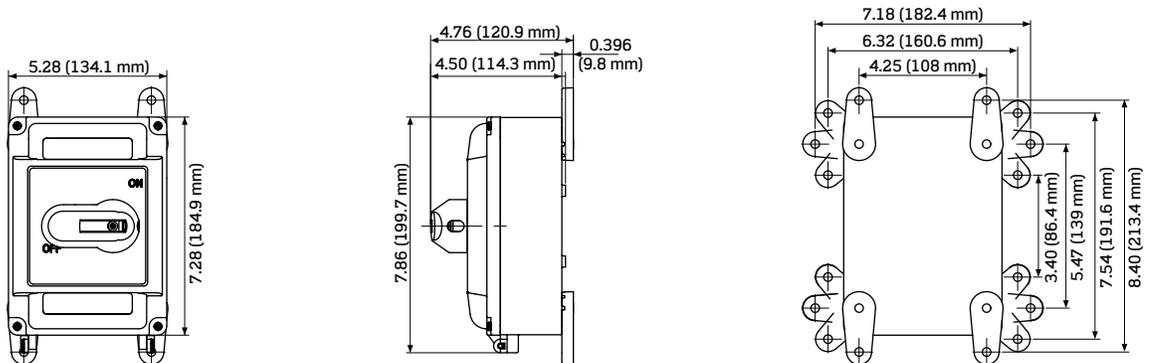


# Dimensional Diagrams

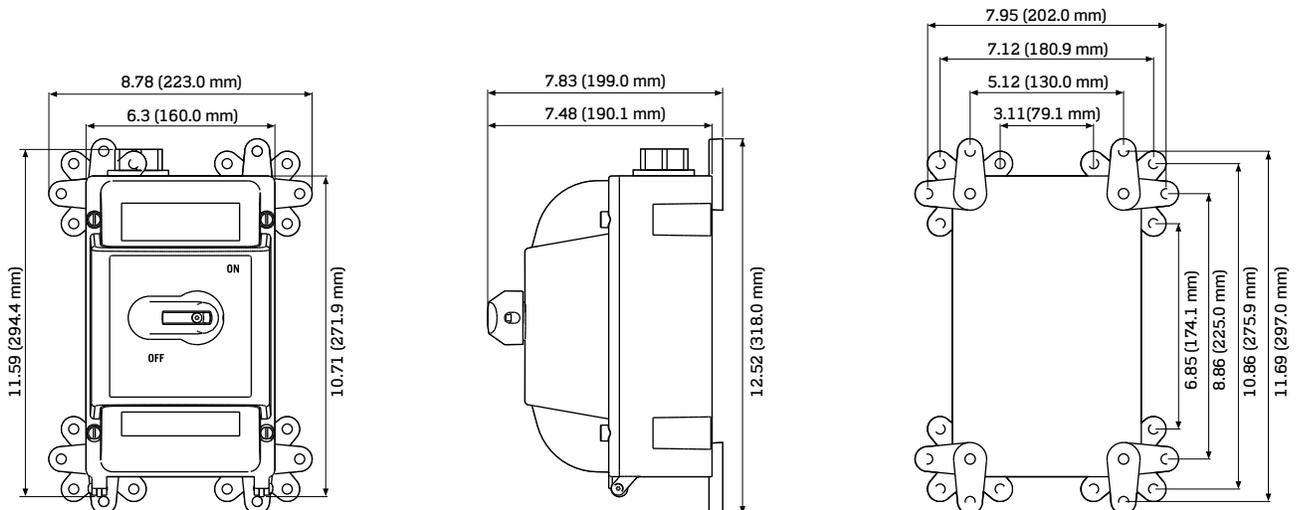
## MDS30-AX



## DS30-AX

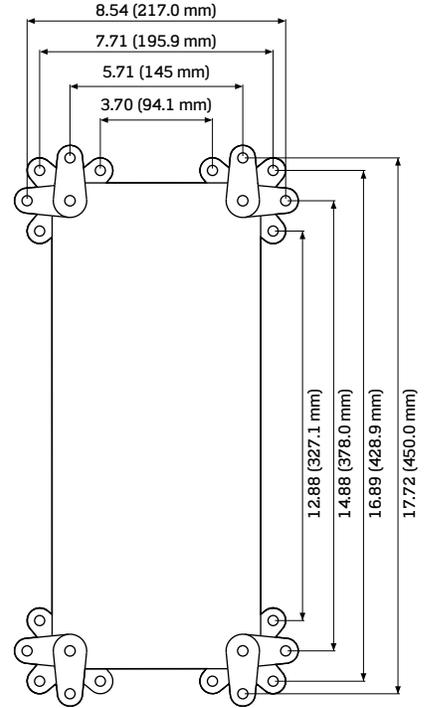
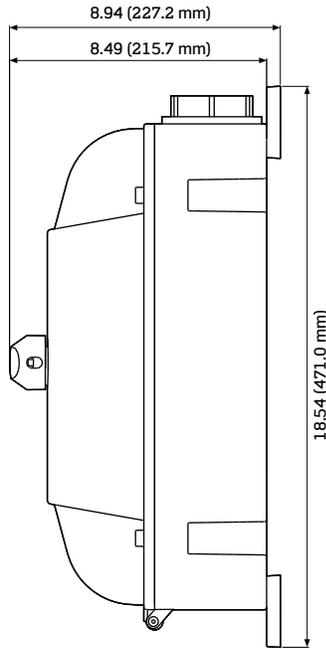
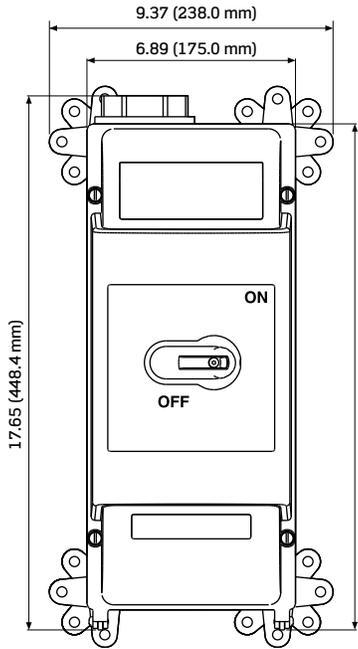


## DS30-FAX & DS60-AX

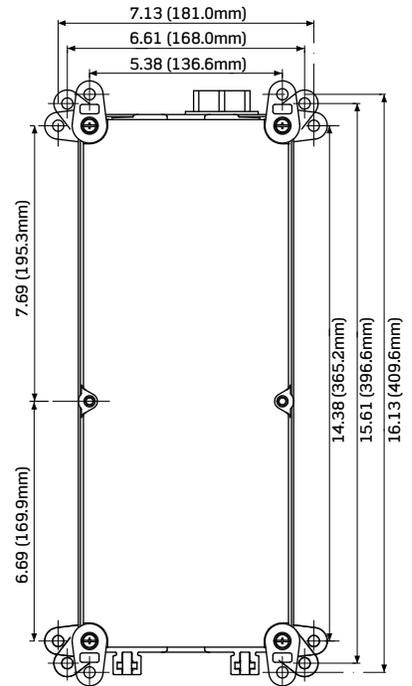
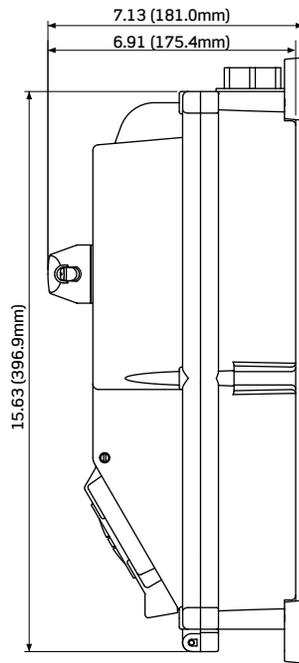
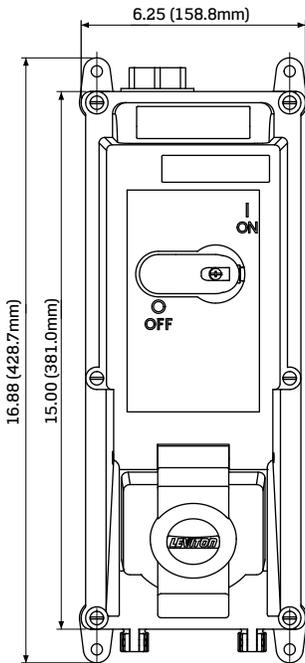


# Dimensional Diagrams

DS60-FAX & DS100-AX



EDSR-23





## Section 4 Mechanical Interlocks

## powerswitch® Mechanical Interlocks for use with NEMA configured receptacles

Leviton Powerswitch mechanically interlocked disconnect switch can be used with any 20 A or 30 A NEMA locking receptacle. These mechanical interlock devices are non-metallic, watertight and are engineered to enhance safety and performance for critical power control installations.

### Features and Benefits:

- Mechanically interlocked design will not allow plug removal unless red handle is in OFF position
- Meet the requirements of outdoor/indoor installations, conforming to IP 66, UL Standard 50 and NEMA environmental ratings of 4X, 12K only when used in conjunction with Leviton Wetguard® plugs
- Meets the requirements of outdoor/indoor installations conforming to IP 54 and NEMA 3R with standard locking NEMA plugs and receptacles with cover closed when not in use
- For use with 20 A - 30 A NEMA locking receptacles up to 600 V (sold separately)
- Provide ON-OFF switched control for a connected load
- Lockout capability in compliance with OSHA Lockout/Tagout Regulation 29 CFR Part 1910.147 (in the OFF position) with an acceptable 1/4" padlock/shackle, thereby assuring the connected equipment cannot be energized
- Auxiliary contact open prior to the line contacts
- Backed by a limited 2-year warranty
- Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amperes
- Certified to UL 231 and UL 686, UL 98 Fused, UL 60947-1 (formerly UL 508) Non-Fused, CSA C22.2 CE



MIDSR



MIDSR  
(Interior View)

## Switched Enclosures for NEMA Receptacles

Amps	Wiring	Voltage, AC	NEMA CONFIG	HP Rating	Receptacle		Plug		
					Type	Cat No	Type	Cat No	
20 A	2P, 3W	125	L5-20	1	V-0-MAX Std	2310	Power Indicator	2311-PLC	
					V-0-MAX CR	23CM10	Wetguard	26W47	
		250	L6-20	2	V-0-MAX Std	2320	Power Indicator	2321-PLC	
					V-0-MAX CR	23CM20	Wetguard	26W48	
		277	L7-20	2	V-0-MAX Std	2330	Power Indicator	2331-PLC	
					V-0-MAX CR	23CM30	Wetguard	26W49	
	480	L8-20	3	V-0-MAX Std	2340	Black & White	2341		
	600	L9-20	NA	V-0-MAX Std	2350	Black & White	2351		
	3P, 4W	125/250	L14-20	2 L-L 1 L-N	V-0-MAX Std	2410	Black & White	2411	
					V-0-MAX CR	24CM10	Wetguard	26W74	
		3Ø250	L15-20	3	V-0-MAX Std	2420	Black & White	2421	
					V-0-MAX CR	24CM20	Wetguard	26W75	
		3Ø480	L16-20	5	V-0-MAX Std	2430	Black & White	2431	
					V-0-MAX CR	24CM30	Wetguard	26W76	
	4P, 5W	3Ø Wye 120/208	L21-20	2	V-0-MAX Std	2510	Black & White	2511	
					V-0-MAX Std	2510	Wetguard	26W81	
		3Ø Wye 277/480	L22-20	5	V-0-MAX Std	2520	Black & White	2521	
					V-0-MAX Std	2520	Wetguard	26W82	
3Ø Wye 347/600		L23-20	NA	V-0-MAX Std	2530	Black & White	2531		
				V-0-MAX Std	2530	Wetguard	26W83		
30 A	2P, 3W	125	L5-30	2	V-0-MAX Std	2610	Power Indicator	2611-PLC	
					V-0-MAX CR	26CM10	Wetguard	28W47	
		250	L6-30	2	V-0-MAX Std	2620	Power Indicator	2621-PLC	
					V-0-MAX CR	26CM20	Wetguard	28W48	
		277	L7-30	3	V-0-MAX Std	2630	Power Indicator	2631-PLC	
					V-0-MAX Std	2630	Wetguard	28W49	
	480	L8-30	5	V-0-MAX Std	2640	Black & White	2641		
	600	L9-30	NA	V-0-MAX Std	2650	Black & White	C2651		
	3P, 4W	125/250	L14-30	2 L-N 2 L-L	V-0-MAX Std	2710	Black & White	2711	
					V-0-MAX CR	27CM10	Wetguard	28W74	
		3Ø250	L15-30	3	V-0-MAX Std	2720	Black & White	2721	
					V-0-MAX CR	27CM20	Wetguard	28W75	
		3Ø480	L16-30	10	V-0-MAX Std	2730	Black & White	2731	
					V-0-MAX Std	2730	Wetguard	28W76	
		3Ø600	L17-30	NA	V-0-MAX Std	2740	Black & White	2741	
					V-0-MAX Std	2740	Wetguard	28W77	
		4P, 5W	3Ø Wye 120/208	L21-30	3	V-0-MAX Std	2810	Black & White	2811
						V-0-MAX Std	2810	Wetguard	28W81
	3Ø Wye 277/480		L22-30	10	V-0-MAX Std	2820	Black & White	2821	
					V-0-MAX Std	2820	Wetguard	28W82	
	3Ø Wye 347/600		L23-30	NA	V-0-MAX Std	2830	Black & White	2831	
					V-0-MAX Std	2830	Wetguard	28W83	

Note: For an environmental rating of IP66, UL Standard 50, and NEMA environmental ratings of 4X and 12K, a Leviton Wetguard® mating locking plug must be used.

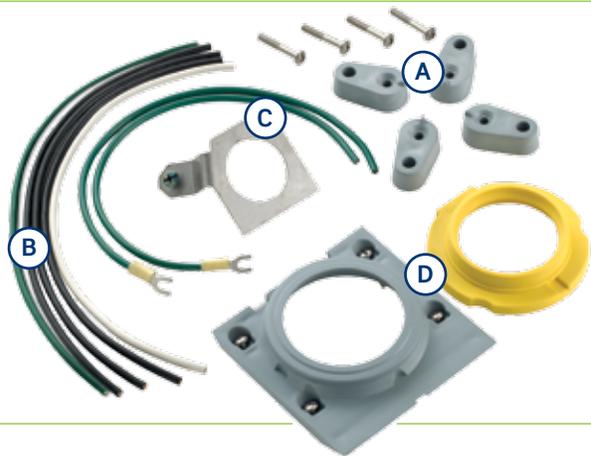
Accessories and replacement parts listed on page 43.

## Specifications

Catalog Number	MIDSR-23
<b>Electrical Specifications</b>	
Amperage	Up to 30 A
Voltage	Up to 600 V AC
Current Interrupting	Certified for full-rated current and voltage
Dielectric Voltage	1000 V plus twice rated voltage for 1 minute
Endurance	6000 operations at rated current and voltage (Power factor 0.75-0.80)
Short Circuit Current Rating (SCCR)	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps
<b>Environmental Specifications</b>	
Flammability	V-2 per UL 94
Operating Temperature	-40 °C to 60 °C
UV Resistance	Exposed plastic materials are UV stabilized
<b>Material Specifications</b>	
Enclosure	PBT
Handle	PBT
Enclosure Screws	Stainless Steel
<b>Mechanical Specifications</b>	
Terminal Identification	In accordance with UL and international conventions
Product Identification	Ratings are permanently marked on device
Terminal Accommodation	#14-#8 AWG
Impact Resistance	In accordance with UL 746C
<b>Standards &amp; Certifications</b>	
NEMA	WD 1 & WD 6
UL Standard	Listed to UL 60947-4-1 (supersedes UL 508)
IEC	947-3
<b>Warranty</b>	
Product Warranty	2-year Limited

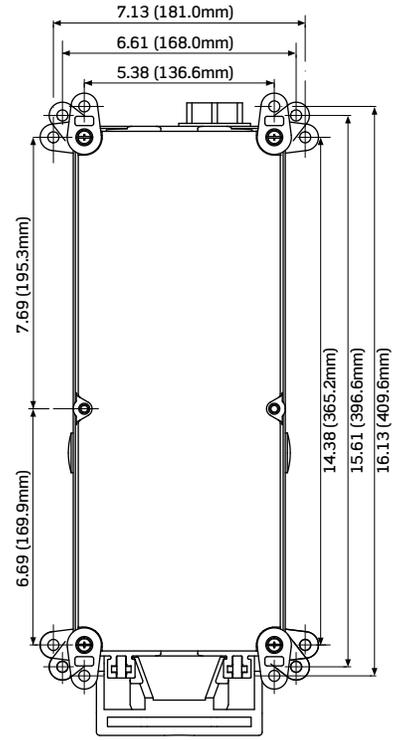
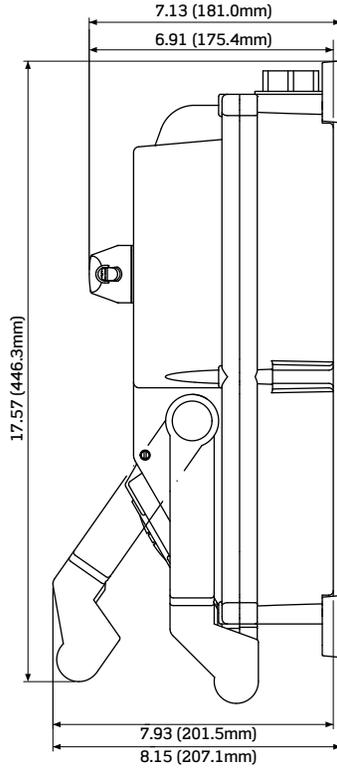
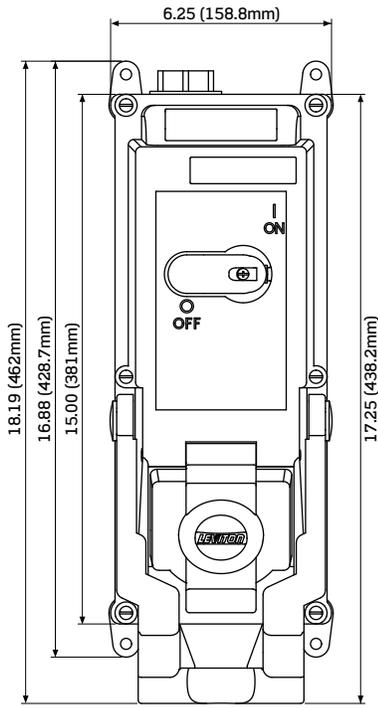
### Every Powerswitch® MIDSR-23 Switched Enclosure is supplied with:

- A) 4 gray mounting feet & 4 screws
- B) Extra wire accommodates all receptacle to switch connections (1-white, 1-green, 3-black)
- C) 2 green wires and ground bracket
- D) Wetguard® seal package for use with corrosion resistant receptacles and Wetguard® plugs



# Dimensional Diagrams

MIDSR-23



## powerswitch®

### mechanical interlocks with UL 60309 pin & sleeve receptacles

Powerswitch® Mechanical Interlock devices incorporate a safety disconnect switch and IEC receptacle in a non-metallic IP67 Watertight enclosure. The interlock mechanism prevents making and breaking of power under load. The switch cannot be actuated to the ON position until an IEC compatible plug is fully inserted and the plug cannot be removed until the switch is in the OFF position. The complete IEC 60309-1 and 60309-2 system of plugs, connectors, inlets and mechanical interlock devices can be used for both retrofit and new installations for enhanced safety and performance in critical power connections.

#### Features and Benefits:

- 20, 30, 60 Amp non-fused and fused
- 100 Amp non-fused and breakered
- Fused models accept “Class J” time-delay fuses
- Backed by a limited 2-year warranty
- Liquid-tight conduit fitting can be installed for top or bottom feed; Conduit hub sold separately
- Stainless steel screws are captive and will not fall out when cover is opened
- Red “pistol grip” handle provides visual confirmation of switch’s status Integrated lockout handle meets OSHA safety regulations
- Impact, UV and chemical-resistant Valox® enclosure rated to UL and IEC watertight standards
  - Type 3R, 4X & 12K
  - IP67
- Circuit identification pad for identifying specific equipment loads
- Color-coded receptacle cover indicates voltage rating of device and seals against water and other contaminants when not in use



420MF9W



420MF9W  
(Inside View)

- Pre-wired grounding plate connects to metal conduit grounding system
- Generous wiring space for drip loop or top to bottom wiring
- Brass threaded inserts will not strip, provide higher torque, and form tighter seal between back box and cover
- Disconnect switch with integrated fuse holder offers proven performance in a compact package
  - Fused cartridges accept “Class J” fuses (not included)
  - One factory installed auxiliary contact (normally opened – 10 Amp); Additional auxiliary contact available
  - Easily accessible neutral and ground terminal blocks
- Pre-wired IEC receptacle accepts all manufacturer’s IEC 60309-2 plugs
- Rugged hinge mechanism pivots 180° for easy access during installation and maintenance

## Switched Enclosures for UL 60309 Pin & Sleeve Receptacles

Amp	Wiring	Voltage AC	Color	Recept. Config.	Plug Config.	Non-Fused Mechanical Interlock Cat. No.	HP Rating	Fused Mechanical Interlock Cat. No.	HP Rating	Use Plug Cat. No.
20	2p3w	240	Blue			320MI6W	3	—	—	320P6W
	2p3w	480	Red			320MI7W	5	—	—	320P7W
	3p4w	125/250	Orange			420MI12W	*	420MF12W	*	420P12W
	3p4w	3Ø240	Blue			420MI9W	10	420MF9W	5	420P9W
	3p4w	3Ø480	Red			420MI7W	20	420MF7W	10	420P7W
	3p4w	3Ø600	Black			420MI5W	25	420MF5W	15	420P5W
	4p5w	3ØY120/208	Blue			520MI9W	10	—	—	520P9W
	4p5w	3ØY277/480	Red			520MI7W	20	—	—	520P7W
	4p5w	3ØY347/600	Black			520MI5W	25	—	—	520P5W
30	2p3w	240	Blue			330MI6W	5	—	—	330P6W
	2p3w	480	Red			330MI7W	10	—	—	330P7W
	3p4w	125/250	Orange			430MI12W	*	430MF12W	*	430P12W
	3p4w	3Ø240	Blue			430MI9W	10	430MF9W	7.5	430P9W
	3p4w	3Ø480	Red			430MI7W	20	430MF7W	15	430P7W
	3p4w	3Ø600	Black			430MI5W	25	430MF5W	20	430P5W
	4p5w	3ØY120/208	Blue			530MI9W	10	—	—	530P9W
	4p5w	3ØY277/480	Red			530MI7W	20	530MF7W	15	530P7W
	4p5w	3ØY347/600	Black			530MI5W	25	530MF5W	20	530P5W
60	2p3w	240	Blue			360MI6W	10	360MF6W	*	360P6W
	2p3w	480	Red			360MI7W	20	—	—	360P7W
	3p4w	125/250	Orange			460MI12W	*	460MF12W	*	460P12W
	3p4w	3Ø240	Blue			460MI9W	20	460MF9W	15	460P9W
	3p4w	3Ø480	Red			460MI7W	40	460MF7W	30	460P7W
	3p4w	3Ø600	Black			460MI5W	40	460MF5W	50	460P5W
	4p5w	3ØY120/208	Blue			560MI9W	20	560MF9W	15	560P9W
	4p5w	3ØY277/480	Red			560MI7W	40	—	—	560P7W
	4p5w	3ØY347/600	Black			560MI5W	40	—	—	560P5W

\*Consult factory for your specific application.  
Fused models accept "Class J" time-delay fuses.

▶ Accessories and replacement parts listed on page 43.

## Switched Enclosures for UL 60309 Pin & Sleeve Receptacles (Continued)

Amp	Wiring	Voltage AC	Color	Recept. Config.	Plug Config.	Non-Fused Mechanical Interlock Cat. No.	HP Rating	Breakered Mechanical Interlock Cat. No.	HP Rating	Use Plug Cat. No.
100	2p3w	125	Yellow			3100MI4W	*	—	—	3100P4W
	2p3w	240	Blue			3100MI6W	15	—	—	3100P6W
	2p3w	480	Red			3100MI7W	25	—	—	3100P7W
	3p4w	125/250	Orange			4100MI12W	*	—	—	4100P12W
	3p4w	3Ø240	Blue			4100MI9W	30	4100MB9W	30	4100P9W
	3p4w	3Ø480	Red			4100MI7W	50	4100MB7W	50	4100P7W
	3p4w	3Ø600	Black			4100MI5W	50	—	—	4100P5W
	4p5w	3ØY120/208	Blue			5100MI9W	25	5100MB9W	25	5100P9W
	4p5w	3Ø120/208	Red			5100MI7W	50	—	—	5100P7W
	4p5w	3Ø120/208	Black			5100MI5W	50	—	—	5100P5W

\*Consult factory for your specific application

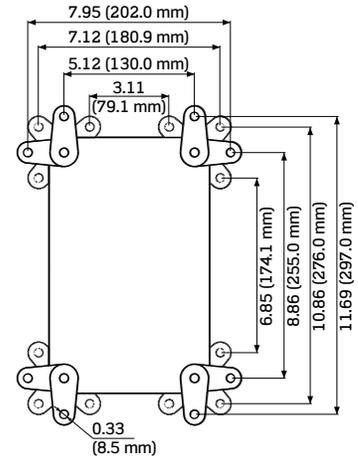
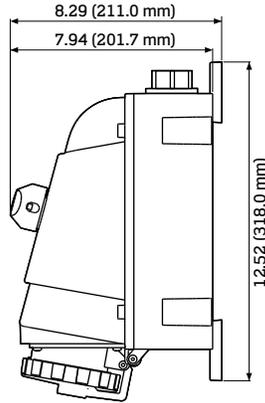
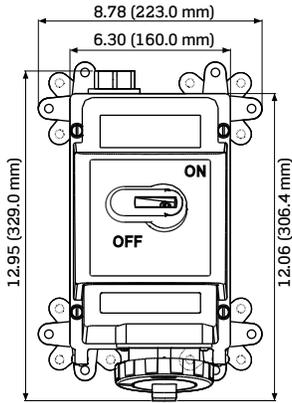
▶ Accessories and replacement parts listed on page 43.

## Specifications

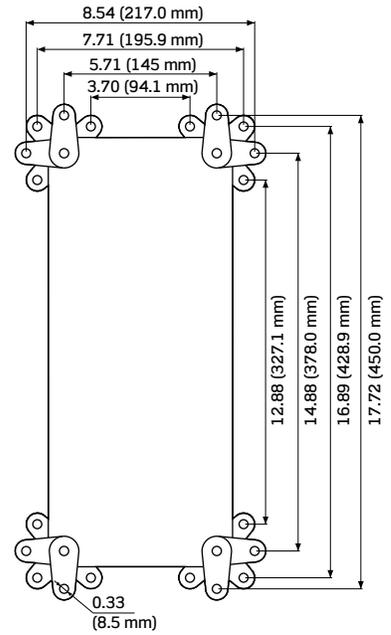
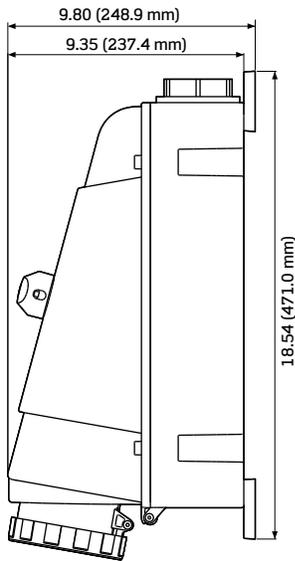
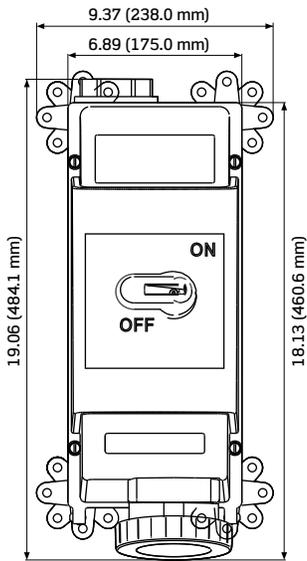
Description	Fused, Non-Fused & Breakered Mechanical Interlocks
<b>Electrical Specifications</b>	
Amperage	Up to 100 A
Voltage	Up to 600 V AC
Current Interrupting	Certified for full-rated current and voltage
Dielectric Voltage	1000 V plus rated voltage for 1 minute
Endurance	6000 cycles inductive motor type load
Short Circuit Current Rating (SCCR)	Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps
<b>Environmental Specifications</b>	
Flammability	V-0 per UL 94
Operating Temperature	-40 °C to 60 °C
UV Resistance	Exposed plastic materials are UV stabilized
<b>Material Specifications</b>	
Enclosure	PBT
Handle	PBT
Enclosure Screws	Stainless Steel
<b>Mechanical Specifications</b>	
Terminal Identification	In accordance with UL and international conventions
Product Identification	Ratings are permanently marked on device
Impact Resistance	In accordance with UL 746C
<b>Standards &amp; Certifications</b>	
NEMA	WD 1 & WD 6
UL Standard	Listed to UL 231, UL 1686 Non-Fused: UL 60947-4-1 (UL 508) • Fused: UL 98
CSA	C22.2 No. 182.1, No. 14
IEC 947-3	60309-2
<b>Warranty</b>	
Product Warranty	2-year Limited

# Dimensional Diagrams

Typical for 20 Amp & 30 Amp Fused & Non-Fused



Typical for 60 Amp Fused & Non-Fused & 100 Amp Non-Fused & Breakered



# Switch Accessories



30ASW & AUXNO



30AHN



MOUNT-KT2

Description	Related Product Section	Catalog Number
Auxiliary Contact, NO	3	AUXNO
Auxiliary Contact, NC	3	AUXNC
Replacement Handle for MDS30-AX	3	30AHN
Replacement Switch for DS30-AX and MDS30-AX	3	30ASW
Mounting Kit for MS4X and DS30-AX Disconnects Only, Includes 4 Screws and 4 Gray Feet	2, 3	MOUNT-KIT*
Mounting Kit for All Fused and Non-Fused Disconnects and Mechanical Interlocks EXCEPT MS4X, DS30-AX EDSR and MIDS, Includes 4 Screws and 4 Gray Feet	3, 4	MOUNT-KT2*

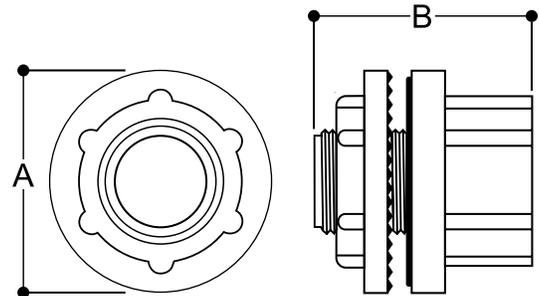
\*Please contact customer service for availability.

## Watertight Conduit Hubs

Description	Hub Size	Dimensions(in)		Mounting Hole (min.)	Catalog Number
		A	B		
Featuring serrations that provide a reliable watertight seal even with a rough or oversized knock-out. Constructed of die-cast zinc, they offer positive grounding, insulated throats to protect wire abrasion and an embedded O-Ring to ensure a watertight seal. For use with IMC (Intermediate Metal Conduit) or rigid conduit. UL listed and CSA certified; Type 2, 3R, 4, 4X, 5, 12, 13; RoHS compliant.	¾"	1.73	1.37	1.05	HUB-34
	1"	2.04	1.59	1.31	HUB-100
	1 ¼"	2.42	1.59	1.66	HUB-114
	1 ½"	2.79	1.59	1.90	HUB-112
	2"	3.30	1.59	2.37	HUB-200



HUB112  
(Front & Back View)



# Custom Wallplates: How To Order



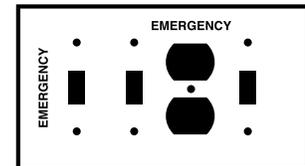
## General Information

Custom wallplates, up to twelve gangs in size, made of brass, stainless steel, painted steel, aluminum or chrome, can be special ordered from Leviton. Any combination of the configurations shown can be specified to meet your needs. In addition, standard and custom metal wallplates can be engraved, and standard nylon wallplates can be hot stamped, with the message of your choice. Follow the steps below to fill out the Custom Wallplate Order Form completely and accurately. The finished order form must include:

1. The wallplate catalog number
2. The type of wallplate material desired (from the Material Code Chart)
3. The quantity of wallplates desired
4. The wallplate configurations in proper order (from the Configuration Code Chart)
5. The wallplate color, selected from the Wallplate Color Code Chart
6. Engraved information with message location and letter size
7. Hot stamped message filler color, selected from the Fill-In Color Chart

Photocopy the blank Custom Wallplate Order Form at the back of this section and refer to the completed sample Custom Wallplate Order Form shown when filling out your order. Your Leviton representative can provide you with additional forms if needed.

The sample order grid below shows the custom wallplate (example only), pictured at right:



Note: Messaging can be written horizontally or vertically. Please contact Leviton for examples of spacing and sizing

## Sample Grid

STEP: 1 CAT. NO. 90004      STEP: 2 MATERIAL CODE S3      STEP: 3 QTY. 1

### STEP: 4 WALLPLATE CONFIGURATION & MESSAGE LOCATION

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
EMERGENCY	01	01	EMERGENCY 03	01	□	□	□	□	□	□	□	□

STEP: 5 WALLPLATE COLOR CODE N/A

### STEP: 6 ENGRAVING INFORMATION

ENGRAVED       FILLER CODE ENGRAVED \_\_\_\_\_      LETTER SIZE 3/8"

E M E R G E N C Y □

### STEP: 7 HOT STAMPING INFORMATION

HOT STAMPED       FILLER COLOR CODE (HOT STAMPED) \_\_\_\_\_

Continued on next page

# How To Fill Out The Custom Wallplate Order Form

Continued from previous page

## Step 1: Determine the Wallplate Catalog Number

The catalog number for a custom wallplate is determined as follows: a single-gang custom wallplate is Cat. No. 90001, a double-gang custom wallplate is Cat. No. 90002, a three-gang custom wallplate is Cat. No. 90003, and so on through the sequence to Cat. No. 90010 for a ten-gang custom wallplate. Enter the number in the space on the Order Form marked "CAT. NO." If you are ordering a standard metal wallplate for custom engraving, use the 90000 series number. If you are ordering a standard nylon wallplate for custom hot stamping, enter that wallplate's catalog number in the space on the Order Form marked "CAT. NO."

## Step 2: Select the Wallplate Material

Choose the custom wallplate material desired from the Material Chart below. Enter the material code for the material selected in the space marked "MATERIAL CODE" on the Order Form. When ordering Custom Hot Stamped wallplates, enter NYLON.

Material	Material Code
Aluminum*	AL — No Engraving or Hot Stamping
Brass (Satin)	BR
Polished Brass	PB
Non-Magnetic Stainless Steel-Type 302/304	S3
Oversize Non-Magnetic Stainless Steel-Type 302/304*	S30
Painted Steel	S5
Oversize Painted Steel**	S50
Chrome	CRM
Raw Steel	RAW

\*6-Gang maximum size, standard size only.  
 \*\*4-Gang maximum size

## Step 3: Determine the Quantity of the Wallplate Order

Enter the number of wallplates needed in the space marked "QUANTITY" on the Order Form.

## Step 4: Determine the Custom Wallplate Configuration

The Wallplate Configuration Chart below shows all the configurations that can be specified for Leviton custom metal wallplates. Each configuration has a specific Configuration Code number in the lower right-hand corner of its corresponding space on the chart. Enter this configuration code in the center of the corresponding square on the Order Form Grid to match its desired position on the finished custom wallplate. If necessary refer to the Sample Order Form Grid on page T-23 for clarification on configurations and their placement.

 Toggle Switch <b>01</b>	 Duplex Receptacle <b>03</b>	 Louvre Horizontal Mount <b>05</b>	 Louvre Vertical Mount* <b>07</b>	 Blank Box Mount <b>09</b>	 Blank Strap Mount <b>11</b>
 Decora/ GFCI <b>13</b>	 Single 1.406" dia. Receptacle <b>15</b>	 1.60" dia. Hole <b>17</b>	 2.15" dia. Hole** <b>19</b>	 2.647" dia. Hole** <b>21</b>	 .312" dia. Hole Strap Mount <b>23</b>
 .312" dia. Hole Box Mount <b>25</b>	 .406" dia. Hole Strap Mount <b>27</b>	 .406" dia. Hole Box Mount <b>29</b>	 .625" dia. Hole Strap Mount <b>31</b>	 .625" dia. Hole Box Mount <b>33</b>	 Interchangeable 1-Device Vertical <b>35</b>
 Interchangeable 1-Device Horizontal <b>37</b>	 Interchangeable 2-Device <b>39</b>	 Interchangeable 3-Device <b>41</b>	 2.460" dia. Hole 2-Gang Only** <b>47</b>	 <b>49</b>	0.880" dia. Hole for Key Lock Power Switch*. Tamper-resistant screws and screwdriver included w/Key Lock configurations. Device mount unless specified otherwise. For 1-gang, order 84071-40.

Enter the code number for the configurations you select in the center box on each desired wallplate position on the Custom Wallplate Order Form.  
 \*3-Gang minimum.  
 \*\*2-Gang minimum

Continued on next page

## How To Fill Out The Custom Wallplate Order Form

Continued from previous page

### Step 5: Select the Wallplate Color

For painted metal, select one of the following colors and enter its color code in the space marked "COLOR CODE" on the order form:

Color	Wallplate Color Code
Black	PE
Brown	PB
Gray	PG
Ivory	PI
Orange	PO
Red	PR
White	PW
Lt. Almond	PT
Antimicrobial - Clear*	AC

\*Only available on Stainless Steel. Contact Customer Service for lead time

### Step 6: Enter Engraving Information

**NOTE: WE CAN ENGRAVE NYLON AND PAINTED AND UNPAINTED METAL WALLPLATES.** After completing steps 1-5:

6A) Type or clearly print the message(s) (i.e., TURN OFF) as you wish it to appear on the lines provided in the appropriate Grid box(es).

6B) Select the size of the letters you desire for the wallplate message from the dimensions shown below and enter that size in the space marked "LETTER SIZE" on the Order Form.

6C) Select the fill-in color for the message letters from the chart below and enter the code for the color chosen in the space marked "FILLER CODE."

Note: Nylon Plates — Engraving or Hot Stamping only on Stock Cat. Numbers

Filler Color Codes for Engraved Wallplates		Letter Size Gauge for Engraved Wallplates				
Color	Code					
Black	PE	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "
White	PW	E	E	E	E	E
Red	PR					
No Filler	XX					

Note: Letters above shown actual size

### Step 7: Enter Hot Stamping Information

7A) Select the message(s) desired from the Message Library below. Enter the message on the lines provided in the appropriate Grid box(es) where they should appear. The message will be stamped in 3/16"-high text.

#### HOT STAMPING MESSAGE LIBRARY FOR CUSTOM NYLON WALLPLATES

1. SHOWER	7. HEAT	13. ON	19. ISOLATED	25. EQUIP
2. VANITY	8. DATA	14. PROTECTED	20. GROUND	26. FLUORESCENT
3. VOICE	9. COMPUTER	15. OFF	21. CONDITIONED	27. OIL
4. ONLY	10. GFCI	16. OIL BURNER	22. CONDITIONED POWER	28. POWER
5. ISOLATED GROUND	11. SURGE	17. PC	23. CRITICAL	29. UPS
6. EMERGENCY	12. FAN	18. DEDICATED	24. ELEC.	

7B) Select the fill-in color for the message letters from the chart below and enter the code for the color chosen in the space marked "FILLER CODE."

Filler Color Codes for Hot Stamping	
Color	Code
Black	XE
White	XW
Red	XR
No Filler	XX

To order nylon wallplates with custom hot stamped message, contact your Leviton salesman or customer service representative

8) Note: Sequential engraving is available. Consult factory for ordering instructions.

Continued on next page

# Custom Wallplate Order Form

To order Custom Wallplates, please fill out this form and send to your Leviton representative.

BILL TO: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SHIP TO: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

P.O. #: \_\_\_\_\_

PRICE: \_\_\_\_\_

**STEP: 1 CAT. NO.** \_\_\_\_\_ **STEP: 2 MATERIAL CODE** pick one \_\_\_\_\_ (AL) (BR) (PB) (S3) (S30) (S5) (CRM) (RAW)

**STEP: 3 QTY.** \_\_\_\_\_ **STEP: 4 WALLPLATE CONFIGURATION & MESSAGE LOCATION**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
□	□	□	□	□	□	□	□	□	□	□	□

**STEP: 5 WALLPLATE COLOR CODE** pick one \_\_\_\_\_ (PE) (PB) (PG) (PI) (PO) (PR) (PW) (PT) (AC)

**STEP: 6 ENGRAVING INFORMATION** pick one \_\_\_\_\_ (YES) (NO)

**ENGRAVED FILLER CODE** pick one \_\_\_\_\_ (PE) (PB) (PG) (PI) (PO) (PR) (PW) (PT)

**ENGRAVED LETTER SIZE** pick one \_\_\_\_\_ (1/8") (3/16") (1/4") (5/16") (3/8")

### Engraving Information (Please print per corresponding gang number)

(1) \_\_\_\_\_  
 (2) \_\_\_\_\_  
 (3) \_\_\_\_\_  
 (4) \_\_\_\_\_  
 (5) \_\_\_\_\_  
 (6) \_\_\_\_\_  
 (7) \_\_\_\_\_  
 (8) \_\_\_\_\_  
 (9) \_\_\_\_\_  
 (10) \_\_\_\_\_  
 (11) \_\_\_\_\_  
 (12) \_\_\_\_\_

**STEP: 7 HOT STAMPING INFORMATION** pick one \_\_\_\_\_ (YES) (NO)

**HOT STAMPED FILLER CODE** pick one \_\_\_\_\_ (XE) (XW) (XR) (XX)

ADDITIONAL INFORMATION (Use this space to add additional information that may be helpful.)

**TERMS**

- Please take care to complete your order carefully. Custom wallplates cannot be returned
- Custom orders are shipped in three to four weeks
- All engraving shall be centered within its corresponding gang unless specifically instructed to span across multiple gangs
- All engravings on toggle configurations shall appear above the mounting screw holes unless specifically instructed otherwise
- All engravings on GFCI/Decora® configurations shall appear below the mounting screw hole unless specifically instructed otherwise



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