

CALUS

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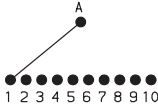
M Series

Half-inch Rotary Switches

SWITCH FUNCTION

36° INDEXING			
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	MA00	ME00	10 Positions No Stops
	MA02	—	2 Positions
	MA03	—	3 Positions
	MA04	ME04	4 Positions
	MA05	—	5 Positions
	MA06	—	6 Positions
	MA10	—	10 Positions
DP	MB00	MF00	5 Positions No Stops
	MB03	—	3 Positions
	MB04	—	4 Positions
	MB05	—	5 Positions

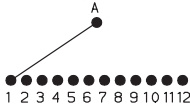
SP MODELS 36° INDEXING SCHEMATIC



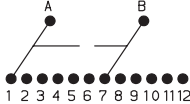
DP MODELS 36° INDEXING SCHEMATIC



SP MODELS 30° INDEXING SCHEMATIC



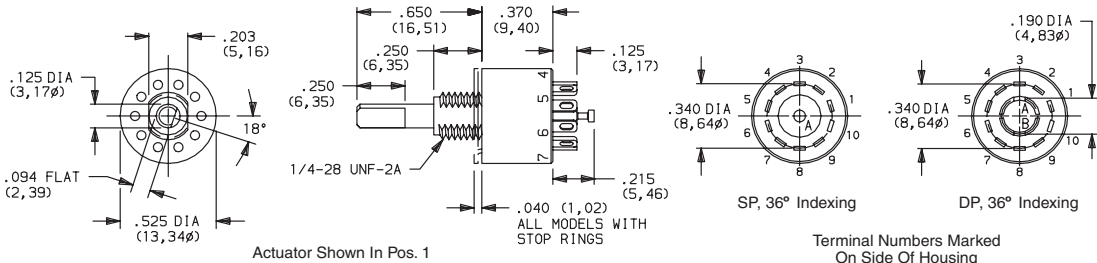
DP MODELS 30° INDEXING SCHEMATIC



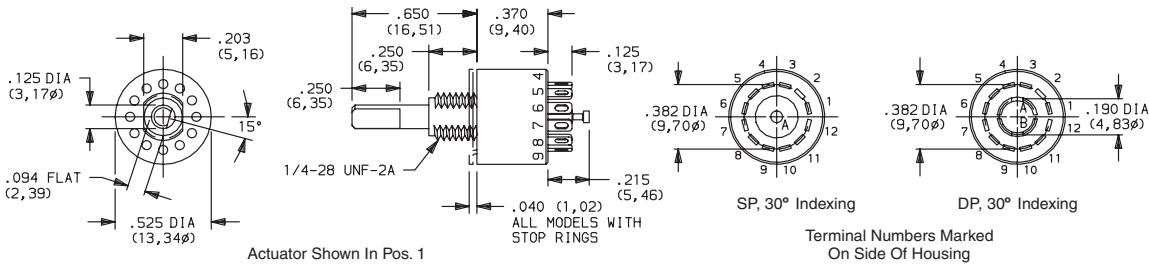
30° INDEXING			
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	MC00	MG00	12 Positions No Stops
	MC03	—	3 Positions
	MC07	—	7 Positions
	MC12	—	12 Positions
DP	MD00	MH00	6 Positions No Stops
	MD06	—	6 Positions

All models  with all options when ordered with S1-S6 stainless steel actuator options.

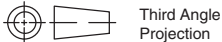
NOTE: Number of positions or stops preset at factory (NOTE: MX00 models have full 360 rotation with no stops. Stop pins or stop rings supplied for user-selectable stops, see above). All terminals present regardless of number of switch positions. Hardware is available separately, see section "Technical Data and Additional Hardware".



Part number shown: MA00L1NZQD



Part number shown: MC00L1NZQD



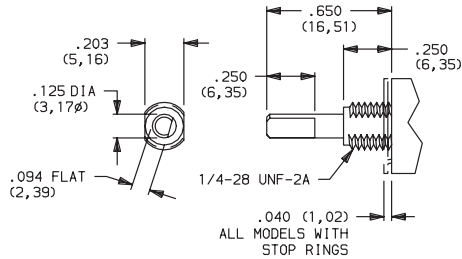
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

M Series Half-inch Rotary Switches

ACTUATOR (ZINC ALLOY)



L1 .650" LONG, FLATTED



L2 SCREWDRIVER SLOT, FLUSH



L3 .650" LONG, ROUND



All actuators shown in pos. 1

ACTUATOR (STAINLESS STEEL)



S1 .650" LONG, FLATTED



S2 SCREWDRIVER SLOT, FLUSH



S3 .650" LONG, ROUND



S6 .785" LONG, SLOT



All actuators shown in pos. 1

All models  when ordered with stainless steel actuators.



Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

M Series Half-inch Rotary Switches

SHORTING/NON-SHORTING CONTACTS



N NON-SHORTING CONTACTS

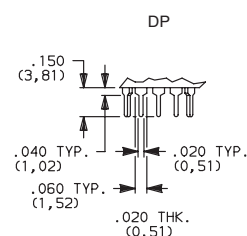
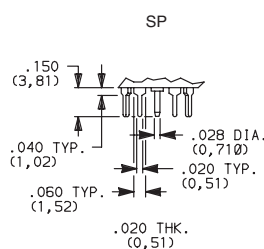
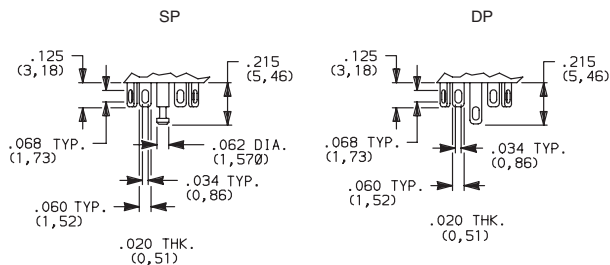
Break-before-make

TERMINATIONS

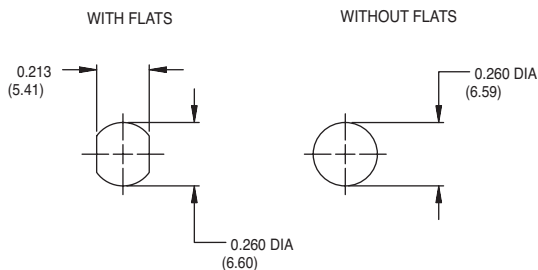


Z SOLDER LUG

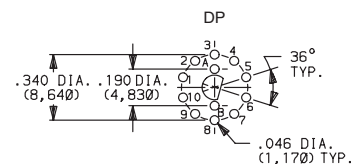
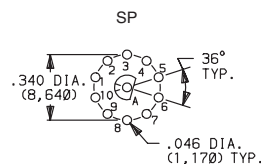
C PC THRU-HOLE



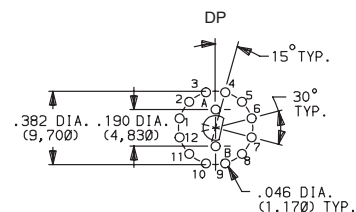
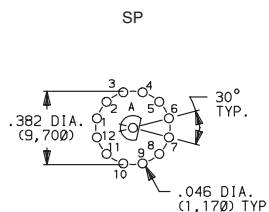
PANEL MOUNTING



PC MOUNTING 36° INDEXING



PC MOUNTING 30° INDEXING



Hardware: All models, one mounting nut and lockwasher supplied standard. MA00 thru MD00 models: two stop pins and adhesive mylar washer supplied. ME00 thru MH00 models: two stop rings supplied. Hardware is available separately, see section "Technical Data and Additional Hardware".

* Will withstand 12 in. - lbs of torque with no distortion.

NOTE: Q contact material standard. Terminal numbers marked on side of housing. All terminals insert molded. All terminals present regardless of number of switch positions.

Actuators and schematics shown in pos. 1.

CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATING	
Q	SILVER ^{1, 2}	SILVER ²	POWER	CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.
G	GOLD OVER SILVER ^{3, 4}	GOLD ⁴	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or, CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

¹ MOVABLE CONTACTS: Non-shortng: Copper alloy, silver plated.

² STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, silver plated.

³ MOVABLE CONTACTS: Non-shortng: Copper alloy, with gold plate over nickel plate, over silver plate.

⁴ STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, G contact material are RoHS compliant.

All models  when ordered with S1-S6 stainless steel actuator options.



Third Angle
Projection

Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change



M Series Half-inch Rotary Switches

SEAL 

D NO EPOXY SEAL

F SPLASHPROOF SHAFT AND PANEL SEAL
IP67 approved



Setting Stops With Stop Pins

MA00, MB00, MC00 & MD00 Models Only:

The number of switch positions or stops are adjustable by means of stop pins provided with each switch. Switches are normally shipped with stop pins and hardware in bulk, not installed. Without stop pins, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

To set stops, refer to figures 1 & 2. Orient switch so that terminal no. 1 is as shown. Turn actuator to position 1, using flats on bushing and terminal no. 1 as reference. Install CCW stop pin in hole designated 'X'. Install second stop pin in hole number corresponding to the number of positions desired. Note that two pole models will begin to repeat when actuated 180° or more. To retain stop pins, use adhesive mylar washer included; see figure 3.

All models except MX00 models have number of switch positions or stops pre-set at factory and are not adjustable.

Hardware:

Two stop pins, mounting nut, and lockwasher supplied standard.



Setting Stops With Stop Rings

ME00, MF00, MG00 & MH00 Models Only:

The number of switch positions or stops are adjustable by means of stop rings provided with each switch. These models are normally shipped with stop rings and hardware in bulk, not installed. Without stop rings, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

To set stops refer to figures 4 & 5. Orient switch so that terminal no. 1 is as shown. Turn actuator to pos. 1 using flats on bushing and terminal no. 1 as reference. See figure 6 and install inner stop ring with short tab in hole designated 'X'. Install outer stop ring with long tab in hole number corresponding to the number of positions desired. Note that all two pole models begin to repeat when actuated 180° or more. Use mounting nut and lockwasher to retain stop rings.

All MEXX, MFXX, MGXX & MHXX Models (Except MX00 models):

Number of switch positions or stops are preset at factory, but are user adjustable.

Hardware:

Two stop rings, mounting nut and lockwasher supplied standard.



Mouser Electronics

Authorized Distributor

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C&K Switches:

<u>MA05L1NZQD</u>	<u>MA00L3NZQD</u>	<u>MG00L1NCQD</u>	<u>MA00L1NCQD</u>	<u>MF00L1NZQD</u>	<u>MB00S2NZGF</u>	<u>MG00L1NZQD</u>
<u>MC00L1NCQD</u>	<u>MA04S1NZQF</u>	<u>MA05S1NZGF</u>	<u>MA05L2NCQD</u>	<u>MB03L1NZQF</u>	<u>MB05S1NZQD</u>	<u>MB03L1NZQD</u>
<u>MA04S6NCGD</u>	<u>MB00L2NZQD</u>	<u>MD00L1NZQF</u>	<u>MF00L1NZGD</u>	<u>ME00L1NCQD</u>	<u>MB00L1NZQD</u>	<u>MD00L1NZQD</u>
<u>MH00L1NZQD</u>	<u>MA00L1NZQD</u>	<u>ME00L1NZQD</u>	<u>MB00L1NCQD</u>	<u>MA00L1NCGF</u>	<u>MA00L1NCQF</u>	<u>MA00L1NZGD</u>
<u>MA00L2NCQD</u>	<u>MA00L3NCGD</u>	<u>MA00L3NCGF</u>	<u>MA00L3NCQD</u>	<u>MA00L3NZGD</u>	<u>MA00S1NCGF</u>	<u>MA00S1NCQD</u>
<u>MA00S1NZGD</u>	<u>MA00S1NZQD</u>	<u>MA00S2NCGD</u>	<u>MA00S3NCQD</u>	<u>MA00S3NCQF</u>	<u>MA00S3NZGF</u>	<u>MA00S3NZQD</u>
<u>MA00S3NZQF</u>	<u>MA02L2NZQD</u>	<u>MA02L3NZQD</u>	<u>MA02S1NZGD</u>	<u>MA02S1NZGF</u>	<u>MA02S3NCQD</u>	<u>MA02S3NZQD</u>
<u>MA03L1NCGF</u>	<u>MA03L1NCQD</u>	<u>MA03L1NZGD</u>	<u>MA03L1NZQD</u>	<u>MA03S1NCGD</u>	<u>MA03S1NZGF</u>	<u>MA03S3NZQD</u>
<u>MA04L1NCGD</u>	<u>MA04L1NCQD</u>	<u>MA04L1NZQD</u>	<u>MA04L2NCQD</u>	<u>MA04L2NZGF</u>	<u>MA04L2NZQD</u>	<u>MA04S1NCGD</u>
<u>MA04S1NCGF</u>	<u>MA04S1NZGF</u>	<u>MA04S2NCGF</u>	<u>MA04S3NCQD</u>	<u>MA04S3NZGD</u>	<u>MA04S3NZQD</u>	<u>MA04S3NZQF</u>
<u>MA05L1NCGD</u>	<u>MA05L1NCQD</u>	<u>MA05L1NZGD</u>	<u>MA05L1NZGF</u>	<u>MA05S1NCGF</u>	<u>MA05S1NCQD</u>	<u>MA05S3NCGF</u>
<u>MA06L1NZGF</u>	<u>MA06L1NZQD</u>	<u>MA06S1NCGD</u>	<u>MA06S2NCGD</u>	<u>MA06S2NZQF</u>	<u>MA06S3NCQD</u>	<u>MA10L1NCQF</u>
<u>MA10L3NCGD</u>	<u>MA10L3NCQD</u>	<u>MA10S1NCGD</u>	<u>MA10S2NCGD</u>	<u>MA10S3NCQD</u>	<u>MA10S3NCQF</u>	<u>MA10S3NZQD</u>
<u>MA10S6NCGD</u>	<u>MB00L1NCGD</u>	<u>MB00L1NZGD</u>	<u>MB00L1NZQF</u>	<u>MB00L3NCGD</u>	<u>MB00L3NCQD</u>	<u>MB00S1NCQD</u>
<u>MB00S3NZQD</u>	<u>MB03L1NCQD</u>					