

M6 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1 3/4" SQUARE 0.5 AMP @ 28 VDC

The M6 Series was originally designed to meet the requirements of MIL-S-3786/40. Standard construction includes 30° indexing up to 12 positions, solder lug terminals, and adjustable stops. Switching is available up to 32 positions.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.5 amp @ 28 VDC; 0.125 amp @ 115 VAC.
Current Carrying Capacity: 10 amps.
Dielectric Strength: 1,500 VAC between current carrying parts and ground.
Contact Resistance: Average initial 10 milliohms.
Insulation Resistance: In excess of 1,000,000 megohms

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Silver alloy composite as standard.
Insulation: Glass epoxy.
Index: Dual-ball, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 30° standard, 11.25°, 15°, and 22.5° available.
Index Stops: Adjustable standard, or continuous.
Stop Strength: 50 in. lbs. minimum.

STANDARD PART NUMBER

EPOXY GLASS INSULATION SWITCHES - 30° INDEXING
 ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

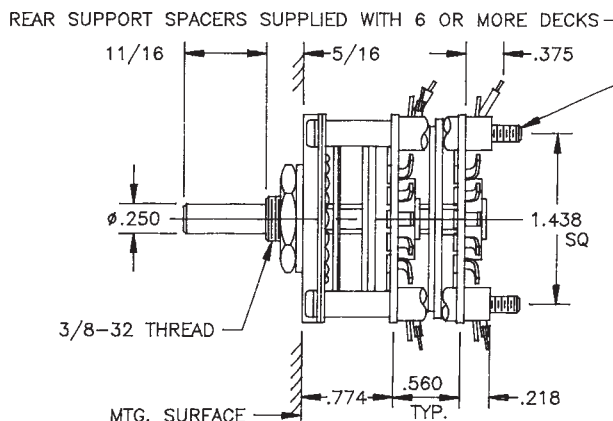
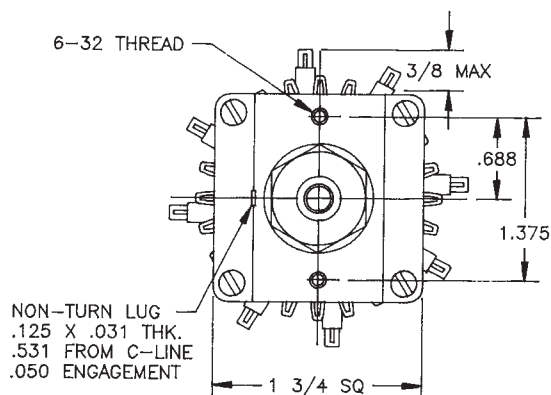
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. ★
01	02-12	1	1	M6G0112S	M6G0112N	MC
02	02-12	1	2	M6G0212S	M6G0212N	MC
02	02-06	2	1	M6G0206S	M6G0206N	MD
03	02-12	1	3	M6G0312S	M6G0312N	MC
04	02-12	1	4	M6G0412S	M6G0412N	MC
04	02-06	2	2	M6G0406S	M6G0406N	MD
06	02-06	2	3	M6G0606S	M6G0606N	MD
08	02-06	2	4	M6G0806S	M6G0806N	MD

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

M6G - GLASS EPOXY CONSTRUCTION



ELECTROSWITCH • ELECTRONIC PRODUCTS
 UNIT OF ELECTRO SWITCH CORP.

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2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M6	G - GLASS	01 - MIN.	12 - MAX @ 30° 16 - MAX @ 22.5°	N - NON-SHORTING S - SHORTING	L - SOLDER LUG R - REAR P.C.	11.5° 15° 22.5° 30°	A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"
M6	G - GLASS	01 - MIN.	32 - MAX @ 11.5° 24 - MAX @ 15°	S - SHORTING					

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

M6G

(SPECIFY)

(SPECIFY)

(SPECIFY)

(SPECIFY)

(SPECIFY)

(SPECIFY)

ADDITIONAL OPTIONS

(SPECIFY)

(SPECIFY)

(SPECIFY)

(SPECIFY)

(SPECIFY)

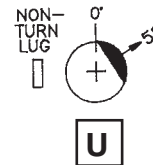
Technical drawing of a shaft with dimensions and labels:

- Overall length: 1.00
- Section A: 0.50
- Section B: 0.50
- Keyway width: 1/4
- Keyway depth: .218
- Shaft diameter: $\phi .250$
- Label: MTG. SURFACE

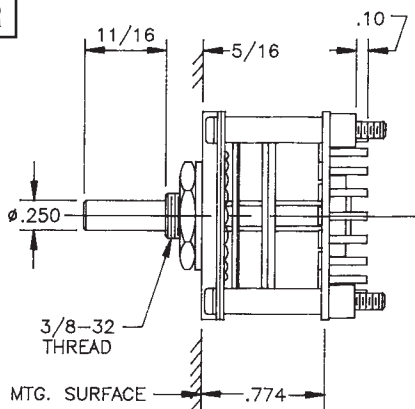
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	11/16	5/16
02	5/8	3/8

P/N OPT.	FLAT ANGLE	
B	ROUND	- STD
U	58°	

SHAFT AS VIEWED
WITH NON-TURN LUG
AT 9 O'CLOCK AND
SHAFT IN EXTREME
CCW POSITION AND
STRUT BOLTS
ORIENTED VERTICALLY.



R



WARD MOUNTING PATTERN

NOTE:

1. LOCATION OF TERMINALS VARY WITH CONTACT CONFIGURATION & INDEXING
2. .10 EFFECTIVE PIN INSERTION LENGTH

The diagram shows a circular terminal pattern with the following specifications:

- A central circle with a diameter of $\phi 1.510$.
- An outer circle representing the mounting area with a diameter of $\phi .760$ (COMM. TERM'S).
- Mounting holes with a diameter of $\phi .150$.
- Terminal locations are indicated by small circles around the perimeter.
- Angular positions for terminals are marked at 30° , 26° , and 15° from the vertical centerline.
- A horizontal dimension of 1.438 SQ. is shown between two parallel lines.
- Dimensional callouts include $\phi .060 / .065$ for hole placement and $\phi .760$ for the overall mounting diameter.



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