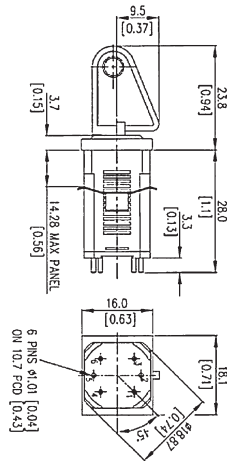


**Miniature Key Switches
M Series**



A range of miniature panel mounted key switches with gold plated contacts and PCB terminals for low level switching applications. Featuring a five disc tumbler in a die-cast lock body with an engraved arrowhead to indicate switch position. The switch body is manufactured from black glass filled polyester and is available in either standard flush mounting or raised bezel versions (to provide low depth behind panel). Each switch is supplied with two identical keys and suitable applications include cash registers, computers, telecommunications equipment and control panels requiring tamper-proof security.

Electrical rating	100 mA at 30V dc
Static discharge res.	7kV
Mechanical life	50,000 ops
Terminals	Gold plated brass pins, 1.01mm x 3.3mm
Temperature	-20°C to +60°C
Indexing	90°
Fixing	Retaining clip
Panel cut-out	15.1 x 15.1
Depth behind panel.mm	28 (standard), 19.8 (low)

NOTES

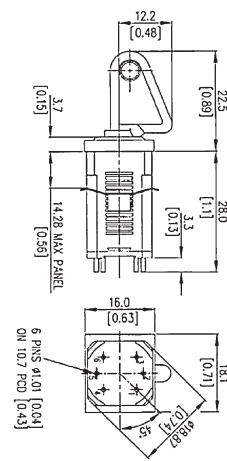
Key trapped versions have the key retained in the 90° clockwise position. 3 circuit selector versions must have terminals 2 & 5 commoned. Caution should be taken when soldering terminals, heat in excess of 300°C for more than 2 secs could cause damage to pins. Spare or replacement keys are available, please consult sales.

Switching Functions

	-90°	0°	+90°		0°	90°
Terminals				Terminals		
2-3	Open	Closed	Open	1-2	Closed	Open
2-1	Closed	Open	Open	2-3	Open	Closed
5-6	Open	Open	Closed	4-5	Closed	Open
				5-6	Open	Closed
Terminals 2-5 must be commoned						
3 Position Selector				Double Pole Changeover		

Stock No.	Manufactures Ref'	Key Code	Switching Function	Positions	Key Trapped	Spring Return	Depth	Unit Price 1-4
2191984	M1-HA-AA-AE	TOK007	DOUBLE POLE C/O	0-90°	NO	NO	STANDARD	7.33
2191987	M1-HA-AA-AJ	TOK007	3 CIRCUIT SELECTOR	-90°-0-90°	NO	NO	STANDARDv	7.33
2191990	M1-HA-EA-AJ	TOK007	3 CIRCUIT SELECTOR	-90°-0-90°	NO	NO	LOW	7.33

**Miniature Key Switches
E Series**



A range of compact miniature panel mounted key switches with gold plated contacts and PCB terminals for low level switching applications mounted with a simple clip to minimise installation time. Key and switch mechanism are manufactured from glass filled polyester and all locks are coded alike. Each switch is supplied with two identical keys and they are suitable as tamper-proof switches in low level security applications where accidental operation of equipment is undesirable.

Electrical rating	100 mA at 30V dc
Static discharge res.	7kV
Contacts	Gold plated phosphor-bronze
Mechanical life	50,000 ops
Terminals	Gold plated brass pins, 1.01mm x 3.3mm
Temperature	-20°C to +60°C
Indexing	90°
Fixing	Retaining clip
Panel cut-out	15.1 x 15.1
Depth behind panel.mm	28 (standard)

NOTES

Key trapped versions have the key retained in the 90° clockwise position. 3 circuit selector versions must have terminals 2 & 5 commoned. Caution should be taken when soldering terminals, heat in excess of 300°C for more than 2 secs could cause damage to pins.

Switching Functions

	-90°	0°	+90°		0°	90°
Terminals				Terminals		
2-3	Open	Closed	Open	1-2	Closed	Open
2-1	Closed	Open	Open	2-3	Open	Closed
5-6	Open	Open	Closed	4-5	Closed	Open
				5-6	Open	Closed
Terminals 2-5 must be commoned						
3 Position Selector				Double Pole Changeover		

Stock No.	Manufactures Ref'	Key Code	Switching Function	Positions	Key Trapped	Spring Return	Depth	Unit Price 1-4
2191618	E1-AA-AA-AJ	NONE	3 CIRCUIT SELECTOR	90°-0-90°	NO	NO	STANDARD	6.58
2191621	E1-AC-AA-AA	NONE	SINGLE POLE C/O	0-90°	YES AT 90°	NO	STANDARD	5.36