




Manual Switches

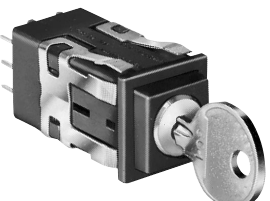
Pushbutton Panels and Manual Switches Selection Guide

							
	SLP Pg. 8	AML Pg. 16	MML Pg. 66				
PHYSICAL DESCRIPTION Panel Area	Depends on size of matrix.	.80" (20,5 mm) square and .80" × 1.20" (20,5 × 30,5 MM).	PWB mount: .40" (10,2 mm) square and .60" × .40" (15,2 × 10,2 mm), except 2-pole power duty paddles and rockers.				
Display	Standard panels: .62 × .48" (15,7 × 12,2 mm) buttons.	.59" (15,0 mm) square and .59 × .99" (15,0 × 25,0 mm) buttons. Pushbutton or lens cap (indicator only) buttons with up to 3-section display. Various button heights. Transmitted, projected, and dead front hidden legend/color.	Pushbuttons: .26" (6,6 mm) square and .46" × .26" (11,7 × 6,6 mm). Transmitted color. Rockers: Optional lenses for transmitted color.				
Illumination	—	Incandescent T-1-3/4 lamps — 6, 14, 28 v. LED's — 2, 4, 5, 10, 15 v. Neon lamps — 125, 250 v.	LED's — 1.7, 2.1, 2.2, 2.3 V Incandescent T-1 lamps — 5 V (other voltage available)				
Behind Panel Depth (max.)	.26" (9,1 mm), less connector.	1.7" (43,1 mm)	.67" (17,0 mm)				
Mounting	Front or rear panel mount.	Snap-in individual, strip, matrix, sub-panel, P.C. board mounting.	Printed wiring board, snap-in strip, matrix.				
Termination	Connector.	Solder, quick-connect, P.C. board, push-on.	Printed wiring board, solder, quick-connect				
Sealing	—	Optional panel seal.	—				
SPECIAL FEATURES	—	Along with companion rockers and paddles, provides the most advanced and complete line of manual controls available.	—				
CHARACTERISTICS							
Electrical Data	30 mA @ 12 VDC, .500 sec. contact duration.	Solid State: 5, 6-16, or 4.5-24 VDC.	Electronic Control: Up to 3a., 125 VAC.	Power Duty: Up to 10a., 125/250 VAC.	Solid State: 5-24 VDC	Electronic Control: Up to 1 a., 125 VAC res.	Power Duty Push-buttons: Up to 6 a., 250 VAC res.
Circuitry	X-Y or common bus	Current Sinking	1, 2 & 4 Form C	2 pole, Form X	Current Sinking	1 or 2 Form C	1 or 2 Form X
AGENCY LISTINGS	N/A	UL, CSA, VDE and CE (selected products)*			UL and CSA		

* For complete international compliance information, contact the 800 number.

AML27 KEYLOCK SWITCHES

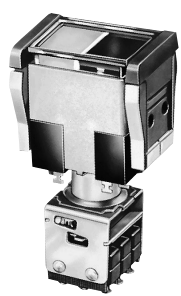
Enable control of access to computer peripherals, keyboards, point-of-sale terminals, and security systems which are locked when unattended; and other locations where tampering must be discouraged. See page 34.



Manual Switches



Series 4
Pg. 99




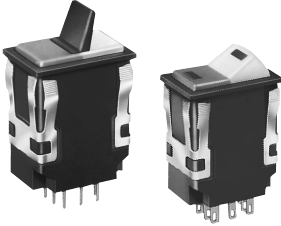
Series 2
Pg. 105

Selection

PHYSICAL DESCRIPTION Panel Area	.84 × 1.03" (21,3 × 26,2 mm).	1.0 × 1.41" (25,4 × 35,8 mm). .86 × 1.35" (21,8 × 34,3 mm).
Display	.53 × .71" (13,5 × 18,0 mm) buttons. Single section display. Transmitted, projected, and dead front hidden color.	.85 × 1.08" (21,6 × 27,4 mm). buttons. 1-4 section display. Transmitted and projected color.
Illumination	Incandescent T-3-1/4 lamps — 14, 28v.	Incandescent T-1-3/4 lamps — 28v.
Behind Panel Depth (max.)	2.40" (6,1 mm)	3.28" (83,3 mm)
Mounting	Snap-in individual or strip mounting; top panel or sub-panel mounting.	Snap-in flange mount and units with mounting barriers for individual or strip mount.
Termination	Solder, quick-connect, P.C. board	Solder, quick-connect, and screw terminals.
Sealing	—	—
SPECIAL FEATURES	Can be furnished with locked button feature for use in public areas where tampering is a problem.	—
CHARACTERISTICS		
Electrical Data	Up to 10 a.	1-20 a., 125, 250, 480 VAC, depending on switch module specified.
Circuitry	1 or 2 Form C	1-4 Form C.
AGENCY LISTINGS	UL, CSA	UL, CSA

Manual Switches

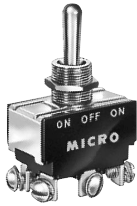



Unlighted Pushbuttons, Toggles/Rockers Selection Guide

	 <p>PB Pg. 116</p>	 <p>AML Pg. 16</p>	
PHYSICAL DESCRIPTION Panel Area	Depends on type and number of basic switches.	.80 × 1.20" (20,5 × 30,5 mm).	
Display	.32" (8,1 mm) dia., and other button sizes. Colored buttons.	Paddle: Full and split color covers.	Rocker: Full and split color rockers.
Mounting	Threaded bushing.	Snap-in individual, strip, matrix, subpanel, P.C. board mounting.	
Termination	Solder terminals.	Solder, quick-connect P.C. board, push-on.	
Sealing	Panel seal version. Hermetically sealed switch units.	—	
SPECIAL FEATURES	Compact size.	Matches display/control options of AML pushbuttons.	
CHARACTERISTICS Electrical Data	2-5 a., 125/250 VAC.	Solid State: 5, 6-16, or 4.5-24 VDC	Electronic Control: Up to 3a., 125 VAC.
Circuitry	1-4 Form C.	Current sinking	1, 2 & 4 Form C.
		2 or 3 positions, mom. or maint. action.	Power Duty: Up to 15a., 125/250 VAC. 1 and 2 Form A. 2 pos. maint.
AGENCY LISTINGS	UL, CSA. Some meet MIL-S-8805 and MIL-STD-1080D.	UL, CSA, VDE and CE (selected products)*	

* For complete international compliance information, contact the 800 number.

Manual Switches

Toggles/Rockers Selection Guide

	 TS Pg. 135	 NT/TL Pg. 120/126/135	 NR/TP Pg. 123/126/141	 AT Pg. 145
PHYSICAL DESCRIPTION Panel Area	2-pole: 1.31 × .75" (33,3 × 19,0 mm).	2-pole: 1.32 × .89" (33,5 × 22,6 mm).	2-pole: 2.13 × .89" (54,1 × 22,6 mm).	Depends on type and number of basic switches.
Display	Toggle lever. Colored lever sleeves.	Toggle lever. Colored lever sleeves.	Full color and transparent rockers.	Toggle lever operator. Colored lever sleeves.
Behind Panel Depth (max.)	1.08" (27,4 mm).	1.35" (34,3 mm)	1.45" (36,8 mm).	.63 to 2.01" (16,0 to 51,1 mm), depending on switch type.
Mounting	Threaded bushing.	Threaded bushing.	3-hole flush or above panel mounting.	Threaded bushing.
Termination	Solder, screw, or quick connect.	Screw, solder, Q-C, IWTS (TL only).	Screw, solder, Q-C (NR only).	Solder, screw, or quick connect.
Sealing	Bushing seal.	Bushing and cover-to-case seals.		Bushing and panel seals, hermetically sealed switch units.
SPECIAL FEATURES	—	Pull-to-unlock toggle option.	—	Pull to unlock and tab lever options.
CHARACTERISTICS Electrical Data	Up to 15a., 125 or 250 VAC.	Up to 15a., 125 or 250 VAC. (TL switches also covered by MIL-S3950 28/115/250 VDC, and 115/230 VAC ratings.)		Up to 15a., 125 or 250 VAC.
Circuitry	1 or 2-pole, 2 or 3 positions, mom., and maint. action.	1, 2 or 4-pole, 2 or 3 positions, mom. and maint. action.		1-10 poles, 2 or 3 positions, mom. and maint. action.
AGENCY LISTINGS	UL, CSA.	UL, CSA. MIL-S-3950 (TL only)	UL, CSA.	UL, CSA. Some meet MIL-S-8805/26 and MIL-S-8805/98.

Selection



- TW Miniature Toggle Switches**
- Colored tab levers (shown), standard and pull-to-unlock levers
 - Solder or IWTS termination
 - SPDT or DPDT circuitry
 - 1/4" or 15/32" bushings
 - MIL-S-83731 qualified versions
- Refer to pg. 130.