MML21 Electronic control pushbutton switches

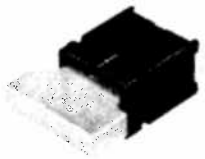
LED, INCANDESCENT, OR NON-LIGHTED DISPLAY



PWB Mount



Panel Mount



PWB Mount (With T-bar button)



PWB Mount (With umbrella button)



PWB Mount (With 1 piece plunger/lens cap button)

FEATURES

- *Silver or gold contacts*
- *Choice of rectangular housings (below) or square housings (page 70)*
- *Accepts one LED or incandescent lamp*
- *Printed wiring board or snap-in panel mounting*
- *Bezels and mounting clips, LEDs and legended lenses can be furnished installed or ordered separately*
- *Umbrella button provides larger hit area. Encoded versions enable BCD output. See MML57, page 83*
- *UL recognized, CSA certified*
- *1 piece plunger/lens cap buttons and T-bar buttons available*
- *Bar actuator available on 4 MML21 switches*

Example: MML21KK3AAK
Electronic control pushbutton switch; rectangular housing (black); bezel (black); mounting clips on long sides, PWB terminals; 1-pole, momentary action, silver contacts, black plunger.

Example: MML21KK3AAKRSDR
As above, except furnished with red LED and red lens installed.

Example: MML21KK3AAHRSXX
Same as above, except with a 1 piece red plunger/lens cap button and red LED.

MML21KK3AAHRSXX20 as above, legended.

MML21 ORDER GUIDE

Catalog listing codes for switch, less assembled display options

MML21K

Housing Type (Rectangular)

MML21K
Black housing
MML21E
White housing

K

Mounting

- **A** No bezel (PWB mounting)
- **K** Black bezel, mtg. clip/long sides
- **M** Black bezel, mtg. clip/short sides
- **W** White bezel, mtg. clip/long sides
- **P** White bezel, mtg. clip/short sides

To order bezels and mounting clips separately see page 88.

3

Terminals

- **3** Printed wiring board
- **2** Solder

AA

Circuitry/Action (Each pole is double throw)

Silver Contacts:
- **AA** 1 pole, mom. action
- **AB** 1 pole, alt. action
- **AC** 2 poles, mom. action*
- **AD** 2 poles, alt. action

Gold Contacts:
- **BA** 1 pole, mom. action
- **BB** 1 pole, alt. action
- **BC** 2 poles, mom. action*
- **BD** 2 poles, alt. action

*Specify **AC** or **BC** for use with **encoded** umbrella style buttons.

SPECIFICATIONS

Electrical Rating (silver contacts)	Standard buttons T-bar buttons and umbrella buttons; Up to 1 amp, 125 VAC
	1 piece plunger/lens cap buttons; Black—up to 1 amp, 125 VAC All others—Up to 0.5 amp, 125 VAC
Electrical Rating (gold contacts)	All button styles: Up to 0.25 amp, 30 VDC UL rating—0.10 amp, 30 VDC
Life	No Load: 250,000 mom. action operations* 100,000 alt, action operations* Full load: 25,000 mom. or maint. operations*
Contact Arrangement	1 or 2 poles Form C 

*@ −18° to 65°C (0° to 149°F), 95% survival

SWITCHES WITH T-BAR BUTTONS

These switches have a gray T-bar button, black rectangular housing, no bezel and PWB terminals.

Catalog Listing	Circuitry/Action
MML21KA3AAK-200	1 pole mom. action silver contacts
MML21KA3ABK-200	1 pole alt. action silver contacts
MML21KA3BAK-200	1 pole mom. action gold contacts
MML21KA3BBK-200	1 pole alt. action gold contacts

Order display options assembled to switch by adding codes below

K

Standard Plunger (w/o lens)	1-Piece Plunger/ Lens Cap buttons
K Black **W** White **A** No plunger. (Use with encoded umbrella buttons only.)	For LED Display: **H** Red **L** Yellow **N** Green **C** Clear For incandescent or non-lighted display: **R** Red **B** Blue **Y** Yellow **V** White **G** Green **X** Black

RS

LED (Stanley Type)
XX No LED **RS** Red* **YS** Yellow* **GS** Green*

*Permanently installed. To order LEDs or incandescent lamps separately, see pages 92–95.

DR

Lens
XX No lens* For LED display: **DR** Red **DY** Yellow **DG** Green **DC** Clear For incandescent or non-lighted display: **LR** Red **LY** Yellow **LG** Green **LB** Blue **LW** White **LK** Black

To order lenses separately, see page 82.
* Enter **XX** when 1-piece plunger/lens is specified and legending is required.

Leave this space blank, if legend not desired

Legend
20 With Legend Use Legend Order Sheet FO-74024 or FO-74097 to cover each catalog listing (see pages 84 and 85).