

M221

20A / 300V Cam Switch

Main Features:

The M221 switch is designed for main and auxiliary circuits operated by hand as ON/OFF, code, gang, changeover, multi-step, instrument or motor switches. The modular design offers different switching stages which can be easily assembled and disassembled. Spring pressure keeps the bridge closed and a cam disk opens it forcibly.

- Sturdy, double-pivoted stop ensures precise switching.
- Switching stages, latching mechanisms and cover plates are bolted together to form the basic switch.
- Three cam disks per switching stage prevents unilateral lifting forces to the slide.
- ☐ Switching angles of 30, 45, 60 and 90 degrees are available.
- Dust protection cover, cylinder locking, padlockable handle options available.

Ordering Information

- 1. Determine basic switching design. Standard switches may be selected from the standard switch listing. We require the number of positions; contact closure in each position.
- 2. Select mounting unit. Type A --Standard Mounting -- Size 2 (S2 switches); Type B -- Larger Mounting -- Size 4 (use on S2 switches).
- 3. If escutcheon plate (name plate) is desired, select appropriate item.
- 4. Choose a handle to operate switch.

Note: If "A" is selected, choose matching units from "A" column.



Building the Part Number ...

Mounting Units В E03 E13 Front Rear E02 E12 Front & Rear E10 E14 Single Hole E04 22.5 mm 30.5 mm -20 -30 Square escutcheon -21 Rectangular escutcheon -22 -32 Without escutcheon

See reverse side for dimensions. If rear
mounting is needed, long shaft or door
nterlock must be specified in the order.

Escutche	on Pla	ites	
	Α	В	
Square			
Order	2PS	4PS	
Dimen. (H)	1.89"	2.52"	
Dimen. (W)	1.89"	2.52"	
Rectangular			
Order	2PR	4PR	
Dimen. (H)	1.89"	2.52"	
Dimen. (W)	2.36"	3.15"	
Combination of escutcheon and handle			

Combination of escutcheon and handle	
hange the last two digits of the order	e

number to reflect your escutcheon and handle type combinations.

Ė	eon	Plate	Handle	No.
	Black	Silver	Black	M1/N1
	Grey	Silver	Grey	M2/N2
	White	Silver	White	M3/N3
	Yellow	Yellow	Red	M4/N4
	Black	Silver	Red	M5/N5

Handles / Operators

M-Handle (Modern)



mm in. 27 1.06

37 1.46 **D** 28 1.10

...M1

N-Handle (Bar)



mm in. 27 1.06 27 1.06

23 0.91

...N1

Also available:

Key operator and padlockable handle

Standard handle: Black. See "Combinations of escutcheon and handle" table to the left for other color selections.



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AC	Rati	ngs

Operating Voltage	Volts	300			
U/L 508 and/or CSA	U/L 508 and/or CSA C22.2-14				
Continuous Current	AMPS	20			
Horsepower Rating	120V	1			
(40-60 hz) per	240V	2			
U/L 508 and/or	480V	5			
CSA C22.2-14	600V	5			
Ampere Rating per	AMPS	20			

U/L 508 and/or CSA C22.2-14

Make and break = 6 to 10 times normal current min.

Kilowatt Rating per	220V	3
IEC 408, 30, AC3	380V	5.5
	500V	5.5
Wire Size	AWG	12
	MM^2	2.5

Operating Temperature

Range °F: -13°F to +122°F Range °C: -25°C to +50°C

Mechanical Details

Mounting Forms

Four hole panel mounting Single hole panel mounting Base mounting

Insulated enclosure, surface mount

Handles / Operators

M-Handle N-Handle **Key Operator** Padlockable Handle

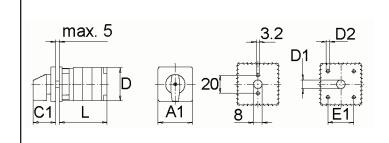
Options

Dust protective cover Cylinder lock Door clutch Door clutch, interlock, padlock device Installation snap mounting

UL Approved

For other ratings, refer to the appropriate data sheet.

Dimensions



'L'	Stages	1	2	3	4	5	6	7
Dimensions	Length (in.)	1.57	1.97	2.36	2.76	3.15	3.54	3.94
Max. 12 stages. Each additional stage adds 0.39" (10mm)								

	mm	in.
A1	48	1.89
C1	31.5	1.24
D	46	1.81
D1	12	0.47
D2	4.5	0.18
E1	36	1.42



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1 800 523-9194 www.pc-s.com

Your Local PC&S Representative:

PANEL COMPONENTS & SYSTEMS, INC. USA: 149 Main Street, Stanhope, NJ 07874 Telephone: (973) 448-9400 Fax: (973) 448-1674

CANADA: 213 Jespersen Ave., Spruce Grove, Alberta T7X 2J1

Telephone: (877) 962-0557 Fax: (780) 962-0557