



ANSI/EIA-520AAAE-1988
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EIA SPECIFICATION

EIA-520AAAE

Detail Specification for
Switch, Pushbutton, Square or
Rectangular Mounting, Illuminated
or Non-Illuminated, 3 A

EIA-520AAAE

DECEMBER 1988

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



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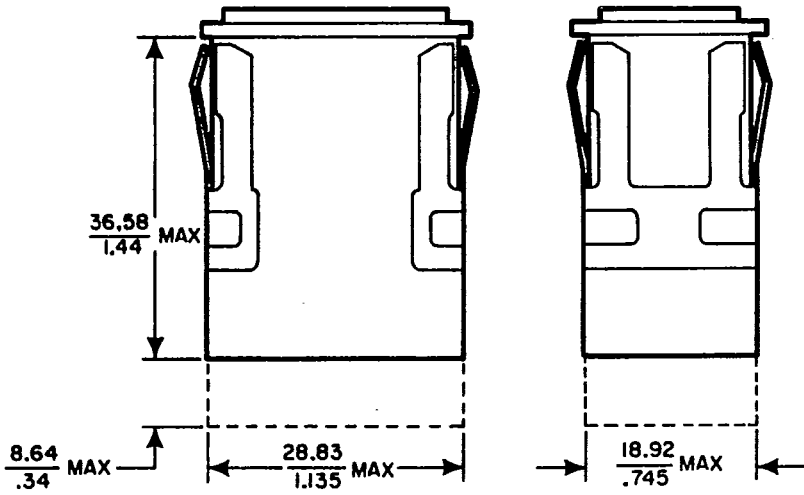
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National Standards Organization Electronic Industries Association 2001 Eye Street Washington, D.C. 20006	Detail Specification Number EIA-520AAAE
Generic Specification Number Electronic components of assessed quality in accordance with EIA-5200000	Blank Detail Specification Number EIA-520AA00
Outline Drawing - MAXIMUM OUTLINE DIMENSIONS  SEE FIGURES 1 AND 2 FOR DETAIL DIMENSIONS	Product Description - pushbutton switch - square or rectangular mounting - illuminated or non-illuminated - 3 amperes, 250 VAC max. - 1, 2, or 4 poles - maintained or momentary action - 3 types of displays - 8 colors - incandescent or LED displays - solder or PC terminals - logic load ratings Electrical Circuit Form C - single break, double throw
	Typical Construction plastic housing plastic display metal mounting clips
	Application Electronic control circuits or power circuits in electrical and electronic equipment

Information on the availability of components
 qualified to this specification is given in
 the Qualified Products List.



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INTRODUCTION

The complete requirements for the switches described herein shall consist of this detail specification and the current issues of EIA-5200000 and EIA-520A000.

(From Standards Proposal No. 2032, formulated under the cognizance of the P-13.3 Subcommittee on Non-Sensitive Pushbutton and Keyboard Switches.)

SECTION ONE - GENERAL DATA

1.0 General1.1 Scope

The illuminated and non-illuminated electronic control pushbutton switches of certified quality covered by this detail specification:

- a) mount in a panel hole of either 19.05 mm (.750 inch) square or 19.05 mm (.750 inch) X 28.98 mm (1.141 inch).
- b) have a maximum rated voltage of 250 volts.
- c) have a maximum rated current of 3 amperes.

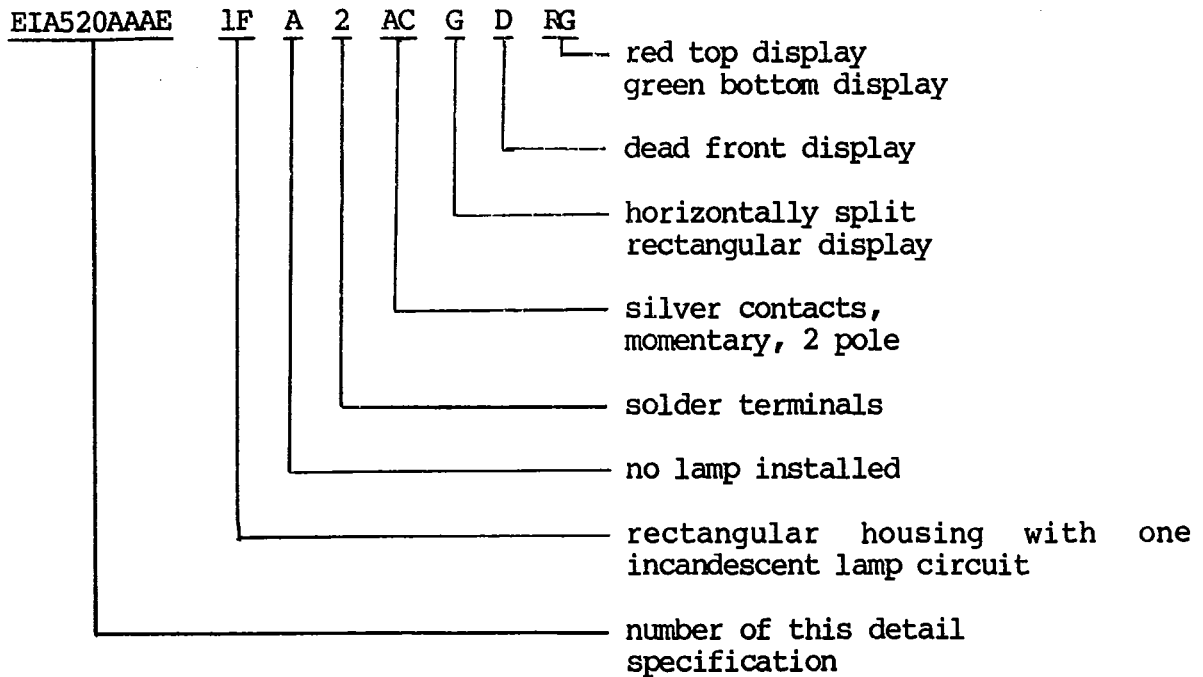
1.2 Type Designation

Switches covered by this detail specification shall be described by the following in the order shown:

- a) The designation for the blank detail specification.
- b) The number for the detail specification.
- c) The type of configuration [1].
- d) The type of lamp [1].
- e) The type of switching circuits [1].
- f) The type of display configuration [1].
- g) The type of display [1].
- h) The colors of the button display [1].

NOTE [1]: See Table 1 for code numbers.

Example of Type Designation: EIA520AAAE1FA2ACGDRG



NOTE: THE TYPE DESIGNATION EXCEEDS 15 DIGITS. DEPARTMENT OF DEFENSE USERS ARE CAUTIONED TO CHECK THE USEABILITY OF THESE NUMBERS IN THEIR APPLICATION IN ACCORDANCE WITH DOD POLICIES.

TABLE I - CODE NUMBER FOR TYPE DESIGNATION

DESCRIPTION	CODE
Configuration (switch housing): square - non-illuminated	1B
square - one-lamp circuit *	1C
square - one LED lamp	2C
rectangular - non-illuminated	1E
rectangular - one lamp circuit *	1F
rectangular - two lamp circuits *	1G

* accepts T1 3/4 wedge base lamps

<u>DESCRIPTION</u>		<u>CODE</u>
Lamps - for incandescent or non-lighted displays:		
	no lamp installed	A
for LED displays:		
	red - * V	B
	- 5 V	C
	- 10 V	D
	- 15 V	E
	- 24 V	F
	Yellow - * V	H
	- 5 V	J
	- 10 V	K
	- 15 V	L
	- 24 V	M
	Green - * V	R
	- 5 V	S
	- 10 V	T
	- 15 V	W
	- 24 V	X
* Refer to Appendix A for external control circuit		
Terminal style -		
	solder or quick connect per Fig. 2	2
	printed circuit per Fig. 2	3
Switching circuits -		
	silver contacts - momentary, 1 pole	AA
	- momentary, 2 pole	AC
	- momentary, 4 pole	CC
	- alt. action, 1 pole	AB
	- alt. action, 2 pole	AD
	- alt. action, 4 pole	CD
	gold contacts - momentary, 1 pole	BA
	- momentary, 2 pole	BC
	- momentary, 4 pole	DC
	- alt. action, 1 pole	BB
	- alt. action, 2 pole	BD
	- alt. action, 4 pole	DD
Display configuration - for switch only (no button), omit remaining codes		X
- for incandescent or non-lighted displays:		
	- square, full screen	C
	- rectangular, full screen	F
	- rectangular, split horizontally	G
- for LED displays, square, full screen		A
Display type -		
	transmitted color	T
	dead front *	D
	projected color *	P
* do not use with non-lighted displays		