



ANSI/EIA-520AAAF-1988
APPROVED: September 15, 1988

EIA SPECIFICATION

Detail Specification for
Pushbutton Switches,
19 mm x 29 mm, 10 Ampere

EIA-520AAAF

EIA-520AAAF

DECEMBER 1988

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



Documents

Document Sharing Hub

NOTICE

EIA Engineering Standards and Publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards and Publications shall not in any respect preclude any member or non-member of EIA from manufacturing or selling products not conforming to such Standards and Publications, nor shall the existence of such Standards and Publications preclude their voluntary use by those other than EIA members, whether the standard is to be used either domestically or internationally.

Recommended Standards and Publications are adopted by EIA without regard to whether or not their adoption may involve patents on articles, materials, or processes. By such action, EIA does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the Recommended Standard or Publication.

This Specification does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

(From EIA Standards Proposal No. 2005, formulated under the cognizance of the EIA P-13.3 Subcommittee on Non-Sensitive Pushbutton and Keyboard Switches.)

Copyright 1989

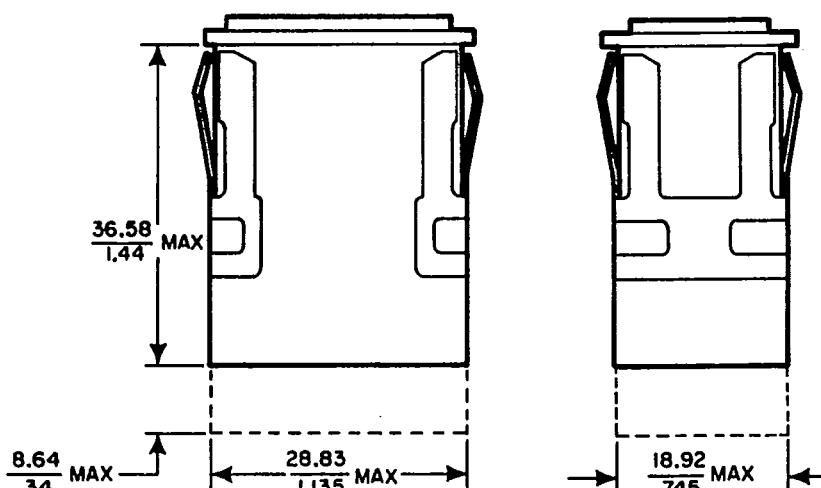
Published by

ELECTRONIC INDUSTRIES ASSOCIATION
Engineering Department
1722 Eye Street, N.W.
Washington, D.C. 20006

All rights reserved

Printed in U.S.A.

PRICE: \$12.00

National Standards Organization Electronic Industries Association 2001 Eye Street Washington, D.C. 20006	Detail Specification Number EIA-520AAAF
Generic Specification Number Electronic components of assessed quality in accordance with EIA-5200000	Blank Detail Specification Number EIA-520AA00
Outline Drawing - MAXIMUM OUTLINE DIMENSIONS  Front view dimensions: Height = $\frac{36.58}{1.44}$ MAX, Width = $\frac{28.83}{1.135}$ MAX, Mounting clip width = $\frac{8.64}{.34}$ MAX. Side view dimensions: Depth = $\frac{18.92}{.745}$ MAX. SEE FIGURES 1 AND 2 FOR DETAIL DIMENSIONS	Product Description - pushbutton switch - 19.05 mm (.750 inch) X 28.98 mm (1.141 inch) mounting - illuminated or non-illuminated - 10 amperes at 125 or 250 VAC - 2 pole - maintained or momentary action - 3 types of displays - 7 colors Electrical Circuit Form X - normally open, single throw
Typical Construction plastic housing plastic display metal mounting clips.	
Application Power circuits in electrical and electronic equipment	

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



Documents
 Document Sharing Hub

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.

SECTION ONE - GENERAL DATA

1.0 General1.1 Scope

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

- a) mount in a panel hole of 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 10 amperes.

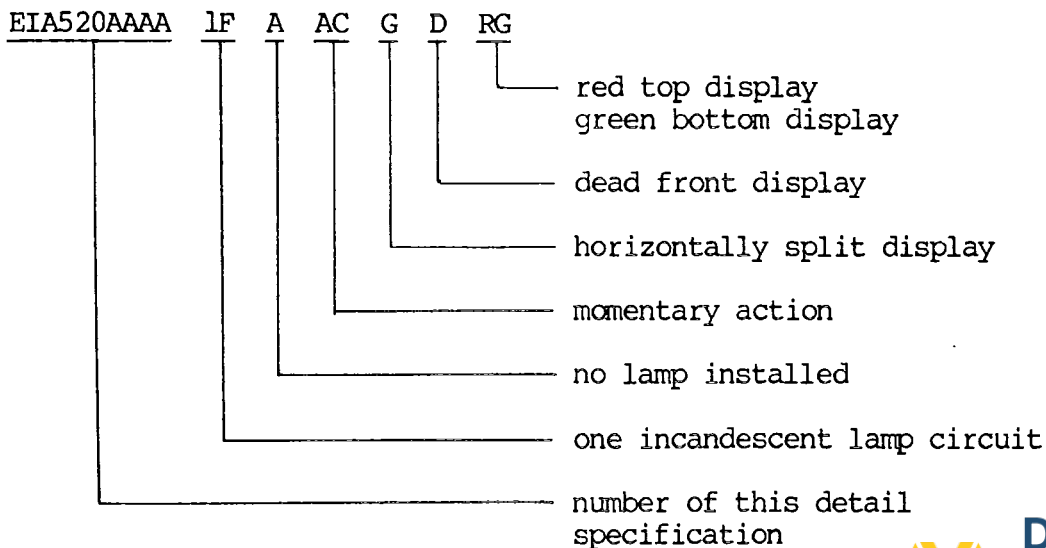
1.2 Type Designation

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 switch action [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: EIA520AAAA1FAACGDRG



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): non-illuminated	1E
one-lamp circuit *	1F
one neon lamp	2F
* accepts T1 3/4 wedge base lamps	
Lamps - for incandescent or non-lighted displays:	
no lamp installed	A
for neon displays:	
red, 125 VAC	B
red, 250 VAC	C
clear, 125 VAC	K
clear, 250 VAC	L
Switch action -	
momentary action	AC
alternate action (two level)	AD
Display configuration - for switch only (no button) omit remaining codes	X
- for incandescent or non-lighted displays:	
rectangular, full screen	F
rectangular, split horizontally	G
- for neon displays, full screen	C
Display type -	
transmitted color	T
dead front *	D
projected color *	P
* do not use with non-lighted displays	
Display colors -	
<u>full color or top color</u>	<u>bottom color (display G only)</u>
red R	Red R
yellow Y	yellow Y
green G	green G
blue B	blue B
white W	white W
black K *	black K *
gray G *	gray G *
* for non-lighted displays only.	

EIA-520AAAF

Page 4

1.3 Marking

The marking of the switch and package shall be in accordance with the requirements of Paragraph 2.5 of EIA-5200000. The switches shall be marked with the following information:

- a) the terminals for the switching circuits shall be identified as 1 and 2 for one pole, and as 3 and 4 for the second pole.
- b) EIA part number
- c) manufacturer's name
- d) date code per RS-476.

1.4 Ordering Information

Orders for switches covered by this specification shall contain the following information as a minimum:

- a) the applicable part number per paragraph 1.2.
- b) EIA 520AAAA, dated _____.

NOTE:

1. The T1 3/4 wedge base incandescent lamps are not supplied.
2. The button may be furnished disassembled from the switch.

1.5 Certified Records of Released Lot - not required

1.6 Safety Considerations

The user shall consider the suitability of the switch with regard to any safety requirements applicable to the equipment.

1.7 Common Features

