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EIA SPECIFICATION

Blank Detail Specification for Special- Use Rotary Switches of Certified Quality

EIA-520FA00

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ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



Approved For Use In
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**BLANK DETAIL SPECIFICATION FOR
SPECIAL-USE ROTARY SWITCHES OF CERTIFIED QUALITY**

(From Standards Proposal No. 2067, formulated under the cognizance of the EIA P-13.1 Subcommittee on Rotary & Thumbwheel Switches.)

INTRODUCTION

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style, layout and minimum content of detail specifications. Detail specifications not complying with these requirements shall not be considered as being in accordance with the certification system nor shall they so be described.

In the preparation of detail specifications, the content of 2.6 of the sectional specification shall be taken into account.

A detail specification shall cover a particular type of rotary switch construction and may include several styles for that type. It is preferable that all styles of a particular type of rotary switch construction be contained in a single detail specification wherever possible. Different types should not be contained in the same detail specification.

The detail specification shall state directly, or by reference to other documents, all information necessary to completely describe all interchangeability parameters for that type of rotary switch, including any styles, and to ensure conformance with all requirements for quality assessment.

Pages 10 through 13 provide an illustration of a detail specification. The numbers between brackets correspond to the following information, which shall be inserted in the position indicated:

Identification of the detail specification

- [1] The standards organization under whose authority the detail specification is drafted.
- [2] The number of the detail specification, date of issue, and any further information required by the standards organization.
- [3] The number and issue of the Sectional Specification.
- [4] The number and issue of the Generic Specification.
- [5] The number and issue of the EIA Blank Detail Specification.

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Identification of switch

- [6] A short description of the type of rotary switch, which shall include as a minimum the information needed for listing on the Qualified Products List.
- [7] A circuit diagram or short description of the electrical circuit(s). Appendix C of the Sectional Specification shall be referenced if applicable.
- [8] Information on the typical construction (when applicable).
- [9] Application(s) covered.
- [10] An outline drawing containing the maximum enclosure dimensions. When space permits, the drawing may include detail dimensions also. The drawing shall comply with 2.6.1 of the sectional specification.

Ratings and characteristics

- [11] Section 1.9 shall provide the appropriate information for the tests in the generic and sectional specifications. Values shall be stated for the following ratings and characteristics, which are mandatory:

- electrical endurance
- electrical ratings
- functional operation
- strength of actuator
- strength of terminals
- high/low temperature - mechanical endurance
- voltage proof
- insulation resistance

Values shall be stated for the following characteristics when the following conditions exist (mandatory if applicable):

- altitude voltage proof when an altitude rating is declared.
- gauging when gauging dimensions are declared.
- logic level endurance when a logic level rating is declared.
- low level endurance when a low level rating is declared.
- immersion in cleaning solvents when terminals are declared suitable for PC mounting.
- low temperature operation when the low temperature rating is lower than 0°C.
- strength of mounting bushing when the switch is intended to be mounted by a threaded bushing.

- strength of screw mounting when the switch is intended to be mounted by screws.
- solderability when the terminals are declared to be solderable.

All other ratings and characteristics are optional. Ratings and characteristics that are not applicable shall be listed as not applicable.



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[1]

Generic Specification Number [3]
Electronic components of assessed
quality in accordance with
EIA-5200000 [4]

Detail Specification Number
EIA-520FAXX [2]

Blank Detail Specification
Number EIA-520FA000

[5]

Outline Drawing [10]

MAXIMUM ENVELOPE DIMENSIONS

Product Description [6]

Switch, Rotary
Current
Voltage
Indexing (angle of
throw)
No. of Poles
Shorting or
Nonshorting

Electrical Circuit [7]
(see Table III)

Typical Construction [8]
open or enclosed
type of mounting

See Figures 1 and 1a for full
dimensional requirements

[9]
Application/Assessment
Level

Electronic Control and
Communication Circuits

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



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