


INTER PLANT STANDARD - STEEL INDUSTRY		
	SPECIFICATION FOR PUSH BUTTONS (First Revision)	IPSS:1-04-023-99
	Based on IS 13947 (Part 5/Sec 1):1993	Formerly: IPSS:1-04-023-93

0. FOREWORD

- 0.1 This Inter Plant Standard has been prepared by the Standards Committee on Switch Gears and Control Gears, IPSS 1:4 with the active participation of the representatives of the steel plants/units, major consulting organizations and established manufacturers of Push Buttons; and was adopted in March 1999.
- 0.2 Interplant Standards for steel industry primarily aim at achieving rationalization and unification of parts and sub-assemblies used in steel plant equipment and accessories and provide guidance in indenting stores or equipment for existing or new installations by individual steel plants. For exercising effective control on inventories, it is advisable to select a fewer number of sizes (or types) from among those mentioned in this standard for the purpose of company standards of individual steel plants. It is not desirable to make deviations in technical requirements.

1. SCOPE

- 1.1 IS 13947 (Part 5/Sec 1):1993 Specification for low-voltage switchgear and controlgear:Part 5 Control circuit devices and switching elements, Sec 1 Electromechanical control circuit devices [superseding IS 6875 (all parts)], has been adopted by the Standards Committee on Switchgears and Controlgears, IPSS 1:4; in March 1999 in general and is applicable to Push Buttons for steel plants with some additional requirements as given below.

2. ADDITIONAL REQUIREMENTS

- 2.1 **Contact Arrangement** - The contacts shall be in the form of basic add-on blocks with combinations of 1 NO + 1NC; 2NO, 2NC and time delay block.
- 2.2 **Rated Operational Currents & Voltages** - The preferred rated operational currents & voltages shall be :

For ac - 6 A & 10 A at 50 Hz

For ac - 48, 110, 230 & 415 V
at 50 Hz

For dc - 0.5 A & 1 A

For dc - 24, 48, 110 & 230 V

For electronic applications -
5 to 100 mA with bounce not
exceeding 5 ms.

2.3 Types of Push Buttons

2.3.1 There are several types of push buttons, namely:

- i) Latched push button,
- ii) Key operated push button,
- iii) Illuminated push button,
- iv) Padlockable push button, and
- v) Covered push button

2.3.2 The actuator of push button may be of different types, namely:

- i) Long or short,
- ii) Flush,
- iii) Recessed, and
- iv) Mushroom.

2.3.3 The switching blocks shall be provided with transparent press in protection covers.