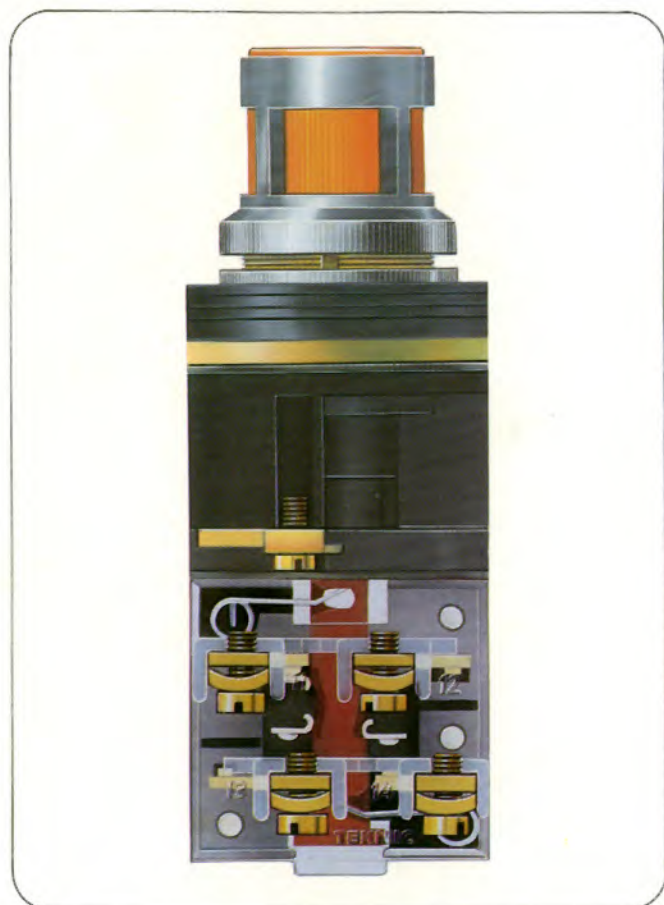
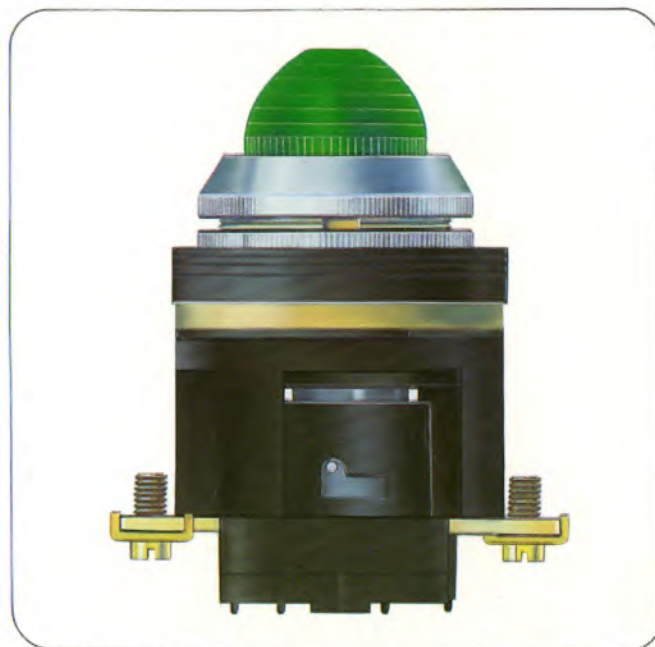


TEKNIC



CONTROL
AND
SIGNALLING
DEVICES
Ø 30.5

SALIENT FEATURES

The \varnothing 30.5 range of pushbuttons, selector actuators, pilot lights and illuminated pushbuttons have been designed to provide the following salient features:

- Aesthetically elegant
- Easy and rapid mounting
- Dust, moisture and oil tight
- Robust in material of construction
- SELF WIPING CONTACTS
- Safe in operation
- Long mechanical and electrical life

The control devices are designed for flush mounting on control panels, desks and machines with plate thickness upto 6mm. Their dust, moisture and oil tight construction make them specially suitable for application in power plants, steel plants, cement plants, coal handling plants, foundries, machine tools, etc. Booted pushbuttons are used in very dusty atmospheres.

The pushbutton comprises of the actuator and contact element. The actuator is designed to contain a full umbrella type of special rubber diaphragm inside the actuator housing in order to provide dust, moisture and oil tight construction. The different types of actuators include shrouded, unshrouded, booted, mushroom spring return or stayput type, mushroom jumbo, selector, key, luminous. Different versions including dust proofing version are described in detail in TEKNIC price list.

The contact element comprises of a contact housing, fixed and moving silver tipped contacts, a slider and a transparent cover through which the contacts can be inspected in operation. Contacts are double break and **self wiping** which ensures long life. Each contact element provides 1NO and 1NC contact. Each unit can take upto 4 contact elements. Separate contact elements can be used on different phases or polarities.

The pilot lights and illuminated pushbuttons are suitable for direct supply or supply through series resistor, using bayonet cap filament bulb.

The pilot lights can also be provided with neon bulbs. Replacement of the bulb is easily done by unscrewing the front ring, holding the lense. Pilot lights can be provided with either glass or polycarbonate lenses in following standard colours:

- TRANSLUSCENT WHITE
- GREEN
- RED
- AMBER
- BLUE
- CLEAR

Supply voltage for direct connection or without series resistor: 6V-230V

Supply voltage for direct connection with series resistor : 24V-230V.

Pilot lights can also be supplied with neon bulbs upto a voltage of 500V.

FIXING

The control devices \varnothing 30.5 can be fixed in any position on panels of 1 to 6mm thickness. They are secured from the front by means of a fixing ring. A set of rubber gaskets is supplied to provide water proofing and tightness between the unit and the panel. The exact number of rubber gaskets is to be selected depending upon the panel thickness. Fixing centres of 60mm are recommended between control stations to provide sufficient space for convenient terminal connections and assembly of legend plates.

The pushbutton can either be mounted as a complete unit on the front of the panel or the contact element can be individually mounted with the actuator on the panel front plate. Also the pilot light can either be mounted as a complete unit on the front of the panel or the pilot light holder can be individually mounted with the lense on the front of the panel.

Control and signalling devices Ø 30.5

ELECTRICAL AND MECHANICAL CHARACTERISTICS

Rated insulation voltage	: 500V AC, 600V DC.
Rated thermal current	: 10A
Contact operation	: Self wiping, slow double break, 1 NO + 1 NC
Make and break capacity (13947-5-1)	: AC 15 · 4A 415V DC 13 · 0.5A 110V
Terminal capacity	: Maximum 2 × 1.5mm ² Minimum 1 × 0.5mm ²
Ambient temperature	: -25°C to + 70°C
Altitude	: < 3000 metres
Operating position	: All positions
Degree of protection	: IP 65
Mechanical life	: Over 1 million operations.

ORDERING INSTRUCTIONS

- Actuators, illuminated actuators, contact elements, pilot lights can be ordered separately or in combination.
- No prefix before all actuators and combinations indicates Ø 30.5 series.
- Numerical colour code has been added as suffix to indicate colour of the actuator or lense as follows:

Colour of Actuator	: White	Black	Green	Red	Yellow	Blue	—
Colour of Lense	: Transluscent white	—	Green	Red	Amber	Blue	Clear
Colour code	: 1	2	3	4	5	6	7
- The type number of contact elements are S11, S12, S21, S22. All these have 1NO+1NC Contacts. S11 is for mounting directly to actuator and S12 for coupling to S11 for obtaining 2 NO + 2 NC. S21 is for individual mounting and S22 is for coupling to S21 for 2NO + 2NC.

BULBS

Filament Bulbs type BA15d

Voltage	: 6	12	24	48	110	220
Watts (max)	: 5-7	5-7	5-7	5-7	5-7	5-7

LEGEND PLATES

Legend plates are supplied with the following standard texts:

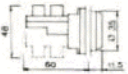
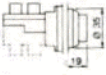
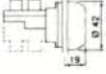

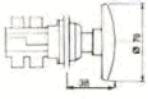
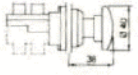


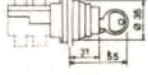
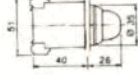
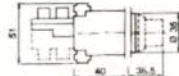
START	FORWARD	UP	ON	OPEN	AUTO	SLOW	RESET
STOP	REVERSE	DOWN	OFF	CLOSE	HAND	FAST	INCH

TYPE NUMBERS

Some examples of type number:

- | | |
|---------------------|---|
| Actuator | : Type AF3 means flush type actuator Ø30.5 GREEN |
| Pilot Light | : Type PLB4 means pilot light without resistor RED
Type PLBR3 means pilot light with series resistor GREEN |
| Complete Pushbutton | : Type PSF411 means flush pushbutton RED with 1 NO + 1 NC |
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Control and signalling devices Ø 30.5

Some common types					
	Description	Type of Actuator	Colour of Actuator or Lense	Contact Element S11 (1 NO + 1 NC)	Type of Complete Control Device
	Flush Pushbutton	AF3	Green	1 NO + 1 NC	PSF311
		AF5	Yellow	2 NO + 2 NC	PSF522
	Projecting Pushbutton	AP2	Black	1 NO + 1 NC	PSP211
		AP4	Red	3 NO + 3 NC	PSP433
	Booted Pushbutton	AB3	Green	1 NO + 1 NC	PSB311
		AB4	Red	2 NO + 2 NC	PSB422
	Mushroom Pushbutton (Spring return)	AM2	Black	1 NO + 1 NC	PSM211
	Mushroom Jumbo Pushbutton (Spring return)	AMJ4	Red	4 NO + 4 NC	PSMJ444
	Mushroom Pushbutton Latching. Turn to Release.	AML2	Black	1NO + 1NC	PSML211
		AML4	Red	2NO + 2NC	PSML422
	Mushroom Pushbutton Latching. Key to Release.	AMLKB4	Red	1NO + 1NC	PSMLKB411
	Selector Actuator (2 Pos.)	AS2-2P	Black	1 NO + 1 NC	PSS211-2P
	Selector Actuator (3 Pos.)	AS2-3P	Black	2 NO + 2 NC	PSS222-3P
	Key Actuator (2 Pos)	AK2-2P		1 NO + 1 NC	PSK211-2P
	Key Actuator (3 Pos)	AK2-3P		2 NO + 2 NC	PSK222-3P
	Pilot Light for direct connection upto 230 V		Red		PLB4 (230V)
	Pilot Light through Resistor for 230V		Green		PLBR3 (230V)
	Illuminated Pushbutton direct connection to 110V	AL5	Amber	1 NO + 1 NC	PSL511 (110V)
	Illuminated Pushbutton through series resistor for 230V.	ALR4	Red	1 NO + 1 NC	PSLR411 (230V)

TEKNIC

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