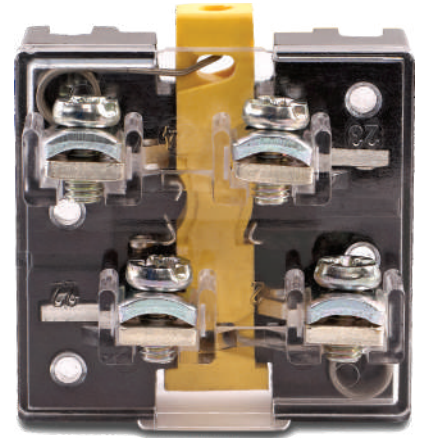


# TEKNIC

CE 

Control and Signaling Devices Ø 30.5 Series



## SALIENT FEATURES

The Ø30.5 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 pushbuttons comprises of the actuators 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 onstruction. The different types of actuators include shrouded, unshrouded booted, mushroom spring return or stayput, 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 ans a transparent cover through which the contacts can be inspected in operation. Contacts are double break are **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 light 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 the following standard colours

- |                     |         |
|---------------------|---------|
| • TRANSLUCENT WHITE | • AMBER |
| • GREEN             | • BLUE  |
| • RED               | • 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 Ø30.5 can be fixed in any position on panel 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 be either be mounted as complete unit on the front of the panel or the contact 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.

### 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)	: AC15: 4A 415V : DC13: 0.5A 110V
Terminal capacity	: Maximum 2x1.5mm <sup>2</sup> : Minimum 1X0.5mm <sup>2</sup>
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

1. Actuators, illuminated actuators, contact elements, pilot lights can be ordered separately or in combination.
2. No prefix before all actuators and combinations indicates Ø30.5 series
3. 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:	Translucent white	-	Green	Red	Amber	Blue	Clear
Colour code:	1	2	3	4	5	6	7
4. 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 2NO+2NC. S21 is for individual mounting and S22 is for coupling for S21 for 2NO+2NC

### BULBS

Filament Bulbs type BA15d

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

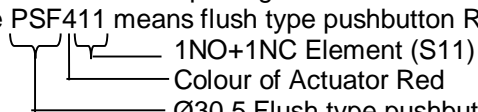
### LEGEND PLATES

Legend plates are supplied with the following standards 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 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 type pushbutton RED with 1NO+1NC 



# TEKNIC

Control & Signalling Devices 30.5 Ø

NON ILLUMINATED ACTUATOR				
	TYPE	COLOUR	ORDERING CODE	
		White	AF1	
	<b>Flush Momentary</b>	Black	AF2	
		Green	AF3	
		Red	AF4	
		Blue	AF6	
		Yellow	AF8	
		White	AP1	
	<b>Projecting Momentary</b>	Black	AP2	
		Green	AP3	
		Red	AP4	
		Blue	AP6	
		Yellow	AP8	
				
	<b>Booted Momentary</b>	Black	AB2	
		Green	AB3	
		Red	AB4	
		Blue	AB6	
	Yellow	AB8		
				
	<b>Mushroom Momentary Head Ø 40mm</b>	Black	AM2	
		Red	AM4	
				
	<b>Jumbo Mushroom Momentary Head Ø 60mm</b>	Black	AMJ2	
		Red	AMJ4	

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




## Control & Signalling Devices 30.5 Ø

NON ILLUMINATED ACTUATOR				
	TYPE	COLOUR	ORDERING CODE	
	Mushroom	Black	AML2	
	Latching	Red	AML4	
	Head Ø 40mm			
	Jumbo Mushroom	Black	AMLJ2	
	Latching	Red	AMLJ4	
	Head Ø 60mm			
	Key Mushroom			
	Latching	Red	AMLKB4	
	Head Ø 40mm			
	SELECTOR			
	2 position	Black	AS2-2P	
	STAY PUT			
				
	2 position	Black	AS2-2PSR	
	MOMENTARY			
				
	3 position	Black	AS2-3P	
	STAY PUT			
				

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Control & Signalling Devices 30.5 Ø


## NON ILLUMINATED ACTUATOR

	TYPE	COLOUR	ORDERING CODE		
	<b>2 POSITION KEY</b>				
	<b>Stayput</b>				
				AK-2PB	
				AK-2PO	
				AK-2PI	
	<b>Spring Return</b>				
				AK-2POSR	
	<b>3 POSITION KEY</b>				
	<b>Stayput</b>				
				AK-3PA	
				AK-3PB	
				AK-3PO	
				AK-3PI	
	* X stands for position in which key is removable				


# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES


## ILLUMINATED FLUSH ACTUATOR WITH LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Illuminated Flush actuator, spring return			
		Yellow LED Bulb / White Lens	ALF1LB	
	LED Bulb, MCB15 type	White LED Bulb / White Lens	ALF1LB(S)	
	24V AC/DC,	Green LED Bulb / Green Lens	ALF3LB	
	110VAC, 110VDC	Red LED Bulb / Red Lens	ALF4LB	
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	ALF5LB	
		Blue LED Bulb / Blue Lens	ALF6LB	
		Yellow LED Bulb / Clear Lens	ALF7LB	
		White LED Bulb / Clear Lens	ALF7LB(S)	
	Yellow LED Bulb / Yellow Lens	ALF8LB		
Bayonet Bulb LED	Please mention the voltage required after the ordering code			

## PILOT LIGHT WITH INTEGRAL LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Pilot Light			
		Yellow LED / White Lens	PLBR1L	
	Integral LED	White LED / White Lens	PLBR1L(S)	
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	PLBR3L	
	110VAC, 110VDC,	Red LED / Red Lens	PLBR4L	
	230VAC, 220VDC	Amber LED / Amber Lens	PLBR5L	
		Blue LED / Blue Lens	PLBR6L	
		Yellow LED / Clear Lens	PLBR7L	
		White LED / Clear Lens	PLBR7L(S)	
	Yellow LED / Yellow Lens	PLBR8L		
Integral LED	Please mention the voltage required after the ordering code			

## PILOT LIGHT WITH LED BULB

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Pilot Light			
		Yellow LED Bulb / White Lens	PLB1LB	
	LED Bulb, MCB15 type	White LED Bulb / White Lens	PLB1LB(S)	
	24V AC/DC,	Green LED Bulb / Green Lens	PLB3LB	
	110VAC, 110VDC	Red LED Bulb / Red Lens	PLB4LB	
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	PLB5LB	
		Blue LED Bulb / Blue Lens	PLB6LB	
		Yellow LED Bulb / Clear Lens	PLB7LB	
		White LED Bulb / Clear Lens	PLB7LB(S)	
	Yellow LED Bulb / Yellow Lens	PLB8LB		
Bayonet Bulb LED	Please mention the voltage required after the ordering code			





## Control and signalling devices $\phi 30.5$

### Some common types

Description	Type of Actuator	Type of Actuator or Lense	Colour of Element S11 (1NO + 1NC)	Type of Complete Control Device
Flush Pushbutton	AF3	Green	1NO + 1NC	PSF311
	AF8	Yellow	2NO + 2NC	PSF822
Projecting Pushbutton	AP2	Black	1NO + 1NC	PSP211
	AP4	Red	3NO + 3NC	PSP433
Booted Pushbutton	AB3	Green	1NO + 1NC	PSB311
	AB4	Red	2NO + 2NC	PSB422
Mushroom Pushbutton (Spring return)	AM2	Black	1NO + 1NC	PSM211
Mushroom Jumbo Pushbutton (Spring return)	AMJ4	Red	4NO + 4NC	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	1NO + 1NC	PSS211-2P
Selector Actuator (3 Pos.)	AS2-3P	Black	2NO + 2NC	PSS222-3P
Key Actuator (2 Pos.)	AK2-2P		1NO + 1NC	PSK211-2P
Key Actuator (3 Pos.)	AK2-3P		2NO + 2NC	PSK222-3P
Pilot Light for direct connection upto 230V (LED Bulb)		Red		PLB4LB (240V AC)
Pilot Light through series resistor for 230V (LED Bulb)		Green		PLBR3LB (240V AC)
Illuminated Pushbutton direct connection upto 230V (LED Bulb)	AL5LB	Amber	1NO + 1NC	PSL5LB11 (230V)

