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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

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 $\emptyset 30.5$ 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 2x1.5mm²

: Minimum 1X0.5mm²

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. Actutors, 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	OŇ	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

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

1NO+1NC Element (S11)
Colour of Actuator Red
Ø30.5 Flush type pushbutton



NON ILLUMINATED ACTUATOR				
	TYPE	COLOUR	ORDERING CODE	
		1400		
	EL LAG	White	AF1	
	Flush Momentary	Black	AF2	
		Green	AF3	
		Red	AF4	
		Blue	AF6	
		Yellow	AF8	
		NA/le it e	A D4	
	Duals sting Manageton	White	AP1	
	Projecting Momentary	Black	AP2	
		Green	AP3	
		Red	AP4	
		Blue	AP6	
		Yellow	AP8	
		Black	AB2	
	Booted Momentary	Green	AB3	
	Booted Momentary	Red	AB4	
		Blue	AB6	
		Yellow	AB8	
	Mushroom Momentary	Black	AM2	
	Head Ø 40mm	Red	AM4	
	Jumbo Mushroom	Black	AMJ2	
	Momentary Head Ø 60mm	Red	AMJ4	



NON ILLUMINATED ACTUATOR					
	TYPE	COLOUR	ORDERING CODE		
	NA veleve eve	Dlask	AMLO		
	Mushroom	Black	AML2 AML4		
	Latching Head Ø 40mm	Red	AIVIL4		
	Tiead Ø 40mm				
2	Jumbo Mushroom	Black	AMLJ2		
	Latching	Red	AMLJ4		
	Head Ø 40mm	1111			
	Key Mushroom				
	Latching	Red	AMLKB4		
	Head Ø 40mm				
	SELECTOR				
	2 Position	Black	AS2-2P		
	STAY PUT	Didok	7.02-21		
	Q. O				
Work	C. C				
1551000	2 Position	Black	AS2-2PSR		
	MOMENTARY	DIACK	A32-2F3R		
	INCINEIVI/ACT				
	Q, C, PO				
	•				
			_		
	3 Position	Black	AS2-3P		
	STAY PUT				
	9,9,0				
	**				
			1		



ТҮРЕ С	OLOUR	ORDERING CODE
	0200K	CADERANG CODE
2 Position x x		AK-2PB
2 Position X X Stayput		
ام ک		AK-2PO
		AK-2PI
Spring Return X		AK-2POSR
3 Position Key Stayput		AK-3PA
Ž Q Š		AK-3PB
× v		AK-3PO
م ٩ ٥		AK-3PI
*		



LLUMINATED FLUS	H ACTUATOR WITH LED	BULB		
	Туре	Colour of LED / Lens	Ordering Code	
	Illuminated Flush Actuator,	Spring Return		
	LED D. II. MOD45 4	MI I I E D D II (1841 I I	ALE41 B(0)	
	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	
		White LED Bulb/ Clear Lens	ALF7LB(S)	
		Yellow LED Bulb / Yellow Lens	ALF8LB	
Bayonet Bulb LED	Please mention the voltage red	uired after the ordering code		
	PILOT LIGHT WITH INTEGRAL LED			
	1.4		DI DD (1 (0)	
	Integral LED	White LED / White Lens	PLBR1L(S)	
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	PLBR3L	
The second secon	110VAC, 110VDC,	Red LED / Red Lens	PLBR4L	
What where conserve Ch.	230VAC, 220VDC	Amber LED / Amber Lens	PLBR5L	
2 LHLR 240 AC LED X 2 240V AC ± 20%		Blue LED / Blue Lens	PLBR6L	
45547.5.7 C€		White LED / Clear Lens	PLBR7L(S)	
		Yellow LED / Yellow Lens	PLBR8L	
Integral LED	Please mention the voltage i	required after the ordering code		
		White LED Bulb / White Lens	PLB1LB(S)	
	LED Bulb, MCB15 type	Green LED Bulb / Green Lens	PLB3LB	
	24V AC/DC,	Red LED Bulb / Red Lens	PLB4LB	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	PLB5LB	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	PLB6LB	
	230 VAC, 220 VDC	White LED Bulb/ Clear Lens	<u> </u>	
		Yellow LED Bulb / Yellow Lens	PLB7LB(S) PLB8LB	
		Tellow FED Dails / Tellow Fells	FLD0LD	
LED Bulb	Please mention the voltage i	required after the ordering code		

TEKNIC

CONTACT ELEMENTS			
	TYPE		
	ACTUATOR MOUNTING		
\$11 \$12	1NO+1NC		
S11 + S12	1NO+1NC Coupled to S11 to provide 2NO+2NC		
311 + 312	DACE MOUNTING		
	BASE MOUNTING		
\$21 \$22	1NO+1NC		
S21 + S22	1NO+1NC Coupled to S21 to provide 2NO+2NC		
MC0001111111111111111111111111111111111			

Control and signalling devices Ø30.5

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	
ridon r dompaccon	AF8	Yellow	2NO + 2NC	PSF822	60 11.5
Projecting Pushbutton	AP2	Black	1NO + 1NC	PSP211	60 11.5
riojeeding ruenbutten	AP4	Red	3NO + 3NC	PSP433	
Booted Pushbutton	AB3	Green	1NO + 1NC	PSB311	
	AB 4	Red	2NO + 2NC	PSB422	19
Mushroom Pushbutton (Spring return)	AM2	Black	1NO + 1NC	PSM211	
Mushroom Jumbo Pushbutton (Spring return)	AMJ4	Red	4NO + 4NC	PSMJ 444	
Mushroom Pushbutton	AML2	Black	1NO + 1NC	PSML211	▗▃▃▜█▀▀▗ <u>▁</u> ▍╦▍
Latching. Turn to Release.	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	<u> </u>
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	31 08
Pilot Light for	V (LED DAL	Red		PLB4LB (240V AC)	55
direct connection upto 230' Pilot Light through serie resistor for 230V (LED E	S	Green		PLBR3LB (240V AC)	25 40 26
Illuminated Pushbutton direct connection upto 230V	AL5LB (LED Bulb)	Amber	1NO + 1NC	PSL5LB11 (230V)	·
					[5] 40



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