TEKNIC

CE *B*7







Control and signaling devices Ø 22.5 P4 Clip on series

Salient features

This range of Ø 22.5 P4 Clip on series pushbuttons, selector switches, illuminated switches and pilot lights in engineering plastic construction have been designed to provide the following salient features:

- Economy of space
- Simple to fix-Snap fitting
- Aesthetically elegant
- · Robust in materials of construction
 - Safe in operation
- Very good flame resistance
- Fixing method unaffected by excessive
- Shrouded terminals
- vibration unit does not rotate

Resistant to corrosion

- Protection against electrical shock

Actuators

The circular actuators have black plastic bezels, and are functionally interchangeable on the different types of contact elements.

Contact elements

The contact elements are double break. The elements are interchangeable & can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. Gold plated NO and NC contact elements for low voltage, low current switching circuits, < 25 mA, are available. Base mounting elements are also available.



Illuminated pushbuttons & pilot lights

Pilot lights and illuminated switches are suitable for direct connection using bayonet cap multi chip LED bulb (with OAL max 28 mm). Supply voltage using Multichip Led Bulb 12V-230 VAC / DC

Pilot lights and illuminated actuators are available with LED bulbs suitable for operating at various voltages namely 12V, 24V, 110V and 230V AC/DC.

Terminals

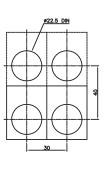
Contact elements and pilot lights are designed to have shrouded terminals with combi screws.

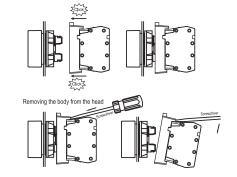
Fixing

The Ø 22.5 P4 Clip on series control devices can be fixed in any position on panels of 1 to 5 mm thickness. We recommend minimum fixing centres of 30mm X 40mm. However, the dimensions and configuration should be decided on the basis of the application.

The actuators, and the lense assemblies snap fit on the holding bracket.

Details of the assembly shown in diagram.





Electrical and mechanical characteristics

Environment	
Standards conformity	

Standards conformity	:	UL 50	8, EN	60947-	5-1						
Approvals	:	UL 50	8								
Degree of protection	:	IP 65 a	as per	IEC 60	529, NE	EMA 4X,	12 as per	UL 50)		
Ambient	:	- 25°C	to +	70ºC							
Operating position	:	All pos	sitions								
Pollution Degree	:	3									
Contact Block											
Rated insulation voltage	:	500 V									
Rated thermal current	:	10 A									
Contact operation	:	Slow b	oreak l	NO or N	IC						
Make and break capacity											
As per IEC 60947 - 5 - 1	:	AC 15	4A,	415 V A	C						
				۰, 110 V							
Terminal capacity	:	Maxim	um 2 :	x 1.5 mr	n² or 1 x	2.5 mm ²	.Minimum	1 x C).5 mm ²		
Terminal marking	:	1 - 2 fo	or NC a	& 3 - 4 f	or NO						
Short circuit protection	:	10 A H	IRC ca	artridge i	fuse, rate	ed for res	sistive load	ing at	1000 A	Prospecti	ve Current
Mechanical life	:	Over 1	millio	n opera	tions						
Electrical rating	:										
(for 1 million operating cycles,		AC 15	V	24	120	230	DC 13	V	24	110	
operating at 3600 cycles per hour,		AC 15	А	4	3	2	DC 13	А	0.5	0.2	
load factor 0.5)											
Screw clamp tightening torque	:	0.8 Nn	n (Non	ninal rec	commend	ded)					

Modules for pilot light & illuminated switches with LED bulb (BA9S cap)

Current consumptions (applicable to all colours) 24 V AC/DC, 110 VAC & 240 VAC max. 20 mA Maximum 2 x 1.5 mm² or 1 x 2.5 mm² . Minimum 1 x 0.5 mm² Terminal capacity Service life (at nominal voltage and at ambient temperature at 25°C) : 100,000 hours

IOMENTARY ACT	UATORS		
	TYPE	COLOUR	ORDERING CODE
		White	P4AF1
		Black	P4AF2
	Flush	Green	P4AF3
S P		Red	P4AF4
		Blue	P4AF6
		Yellow	P4AF8
		I	
	Flush with Arrow marking	White	P4AF1BA
		Black	P4AF2WA
		White	P4AP1
		Black	P4AP2
	Projecting	Green	P4AP3
		Red	P4AP4
		Blue	P4AP6
		Yellow	P4AP8
			24502
		White	P4AF1RR
		Black	P4AF2RR
	Flush Relay Reset	Green	P4AF3RR
		Red	P4AF4RR
		Blue	P4AF6RR
		Yellow	P4AF8RR
		\\/bita	P4AF1+2BT7
		White	
	Dested	Black	P4AF2+2BT7
E THE PAR	Booted	Green	P4AF3+2BT7
		Red	P4AF4+2BT7
		Blue	P4AF6+2BT7
		Yellow	P4AF8+2BT7

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	TYPE	COLOUR	ORDERING CODE
		Black	P4AM2
	Momentary	Green	P4AM3
	Head Ø 40mm	Red	P4AM4
S = A		Blue	P4AM6
		Yellow	P4AM8
	Push Pull	Black	P4AMPP2
	Head Ø 40 mm	Red	P4AMPP4
	Latching	Black	P4AMLS2
	Head Ø 30mm	Red	P4AMLS4
	Latching	Black	P4AML2
	Head Ø 40mm	Red	P4AML4
\bigcirc	Latching with Key	Black	P4AMLKB2
(del)	Ø 40mm	Red	P4AMLKB4

Control & Signalling Devices 22.5 Ø

P4 Clip on Plastic Series

MUSHROOM HEAI	1		
	ТҮРЕ	COLOUR	ORDERING CODE
		Black	P4AMJ2
	Momentary	Green	P4AMJ3
	Head Ø 60mm	Red	P4AMJ4
		Blue	P4AMJ6
		Yellow	P4AMJ8
0	Push Pull	Black	P4AMPPJ2
	Head Ø 60 mm	Red	P4AMPPJ4
-	Latching	Black	P4AMLJ2
	Head Ø 60mm	Red	P4AMLJ4
	Trigger type	Black	P4AMLT2
	Press to Lock	Red	P4AMLT4
	turn to release		
	Head Ø 40 mm		
C##3	Trigger type	Black	P4AMLTKB2
	Press to Lock	Red	P4AMLTKB4
	key to release		
	Ø 40 mm		

SELECTOR ACTUATORS TYPE COLOUR **ORDERING CODE** 2 position Black P4AS2-2P Q Q STAY PUT with extended knob P4AS2E-2P 2 position Black P4AS2-2PSR Ω MOMENTARY P4AS2E-2PSR with extended knob P4AS2-3P 3 position Black QÇ Q STAY PUT P4AS2E-3P with extended knob 3 position MOMENTARY P4AS2-3PSR Black on both sides with extended knob P4AS2E-3PSR P4AS2-3PSRR 3 position Black MOMENTARY on right P4AS2E-3PSRR with extended knob 3 position Black P4AS2-3PSRL MOMENTARY on left P4AS2E-3PSRL with extended knob

KEY SELECTOR ACT			
	ТҮРЕ	COLOUR	ORDERING CODE
	2 Position X X Stayput	Black	P4AK2-2PB
	×~		P4AK2-2PO
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		P4AK2-2PI
	Spring Return	Black	P4AK2-2POSR
	3 Position	Black	P4AK2-3PA
	Č, Č	Black	P4AK2-3PB
		Black	P4AK2-3PC
	Spring Return	Black	P4AK2-3PSR
	Spring Return right to centre	Black	P4AK2-3PSRR
	Spring Return	Black	P4AK2-3PSRL
	X stands for pos	sition in which key is ren	novable

TWIN ACTUATORS	6		
	ТҮРЕ	COLOUR	ORDERING CODE
	Double Flush	Green	P4ATF3F4
	w/o IO Mark	Red	
	Double Flush with IO Mark	Green Red	P4ATF3F4(IO)
<u>b</u> +			
	1 Flush,	Green	P4ATF3P4
	1 Projecting w/o IO Mark	Red	
	1 Flush,	Green	P4ATF3P4(IO)
	1 Projecting	Red	
<b>医</b>	with IO Mark		

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ILLUMINATED MOMENTARY ACTUATORS WITH LED BULB					
	ТҮРЕ	COLOUR	ORDERING CODE		
	Illuminated Flus	h, Momentary			
	LED Bulb, BA9S type 24V AC/DC, 110VAC, 110VDC	White LED Bulb / White Lens Green LED Bulb / Green Lens Red LED Bulb / Red Lens	P4ALF1LB(S) P4ALF3LB P4ALF4LB		
Solito represente de C C L Marco estatuto de C C C C L Marco estatuto de C C C C C C C C C C C C C C C C C C	230VAC, 220VDC	Amber LED Bulb / Amber Lens   Amber LED Bulb / Amber Lens   Blue LED Bulb / Blue Lens   White LED Bulb / Clear Lens   Yellow LED Bulb / Yellow Lens	P4ALF5LB P4ALF6LB P4ALF7LB(S) P4ALF8LB		
		the voltage required after the ordering co	de		
And the second s	LED Bulb, BA9S type 24V AC/DC, 110VAC, 110VDC 230VAC, 220VDC	White LED Bulb / White Lens   Green LED Bulb / Green Lens   Red LED Bulb / Red Lens   Amber LED Bulb / Amber Lens   Blue LED Bulb / Blue Lens   White LED Bulb / Clear Lens   Yellow LED Bulb / Yellow Lens	P4ALF1LB(S) P4ALF3LB P4ALF4LB P4ALF5LB P4ALF6LB P4ALF7LB(S) P4ALF8LB		
	Please mention	the voltage required after the ordering co	ode		

	ТҮРЕ	COLOUR					
	2 Position, Illuminated se	lector actuator	•				
	Otherweit Trine	White LED Bulb / White Lens	P4ASL1LB(S)-2P				
	Stayput Type	Green LED Bulb / Green Lens	P4ASL3LB2P				
	LED Bulb BA9S type	Red LED Bulb / Red Lens	P4ASL4LB-2P				
	24V AC/DC,	Amber LED Bulb / Amber Lens	P4ASL5LB2P				
	110VAC, 110VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-2P				
	230VAC, 220VDC	White LED Bulb / Clear Lens	P4ASL7LB(S)-2P				
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-2P				
	Please I	Please mention the voltage required after the ordering code					
• •	Chuing Datum	White LED Bulb / White Lens	P4ASL1LB(S)-2PSF				
	Spring Return	Green LED Bulb / Green Lens	P4ASL3LB2PSR				
	LED Bulb BA9S type	Red LED Bulb / Red Lens	P4ASL4LB-2PSR				
	24V AC/DC,	Amber LED Bulb / Amber Lens	P4ASL5LB2PSR				
	110VAC, 110VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-2PSR				
	230VAC, 220VDC	White LED Bulb / Clear Lens	P4ASL7LB(S)-2PSR				
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-2PSR				
	Please mention the voltage required after the ordering code						

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ILLUMINATED SELECTOR WITH LED BULB							
	ТҮРЕ	Colour of LED / Lens	ORDERING CODE				
	3 Position, Illuminated Selector Actuator						
	Stayput type						
	LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3P				
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3P				
	24V AC/DC, <b>000</b>	Red LED Bulb / Red Lens	P4ASL4LB-3P				
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3P				
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3P				
		White LED Bulb/ Clear Lens	P4ASL7LB(S)-3P				
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3P				
	Please mention the ve	oltage required after the ordering	ng code				
HALVER DE LERRE ET BALLER	Spring return both sides						
Contraction of the second	LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3PSR				
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3PSR				
	24V AC/DC,	Red LED Bulb / Red Lens	P4ASL4LB-3PSR				
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSR				
BASS 4LHB	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSR				
LED & 240VAC 240V		White LED Bulb/ Clear Lens	P4ASL7LB(S)-3P				
IEC/ENINAT-8-1 4015		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSR				
	Please mention the voltage required after the ordering code						
	Spring return left to centre						
	LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3PSRL				
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3PSRL				
	24V AC/DC,	Red LED Bulb / Red Lens	P4ASL4LB-3PSRL				
	110VAC, 110VDC 0 0	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSRL				
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSRL				
		White LED Bulb/ Clear Lens	P4ASL7LB(S)-3PL				
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSRL				
	Please mention the vo	oltage required after the ordering					
	Spring return right to centre						
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3PSRR				
	24V AC/DC, 0,0	Red LED Bulb / Red Lens	P4ASL4LB-3PSRR				
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSRR				
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSRR				
		White LED Bulb/ Clear Lens	P4ASL7LB(S)-3PR				
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSRR				
	Please mention the ve	oltage required after the orderin					

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<b>Control 8</b>	k Sign	alling	Device	s 22.5 Ø
P4 (	Clip o	n Plas	tic Seri	ies

TWIN ILLUMINATED ACTUATORS WITH LED BULB							
	ТҮРЕ	COLOUR	ORDERING CODE				
	Twin Illuminated Flush/Flush Actuat	or with IO Marked					
	LED Bulb, BA9S type	Green Flush Actuator					
	24V AC/DC,	Red Flush Actuator	P4ATL5LBF3F4 (IO)				
	110VAC, 110VDC	Amber Lens / Amber LED					
	230VAC, 220VDC						
	Please mention the voltage required after the ordering code						
.ma. watrone * C C			9 0000				
kan 4LHB Liggi ∉anonga waxaana etta a	Twin Illuminated Flush/Projecting A	ctuator IO Marked					
	LED Bulb BA9S type	Green Flush Actuator					
	24V AC/DC,	Red Flush Actuator	P4ATL5LBF3P4 (IO)				
	110VAC, 110VDC	Amber Lens / Amber LED					
	230VAC, 220VDC						
	Please mention the voltage required after the ordering code						



MUSHROOM ILLUMINATED ACTUATORS, LATCHING, WITH LED BULB					
	ТҮРЕ	COLOUR	ORDERING CODE		
	Mushroom Illuminated Actuator, Trigger Type, Press to Lock - Turn to release				
	LED Bulb, BA9S type				
	24V AC/DC,	Red	P4ALMLT4LB		
	110VAC, 110VDC				
	230VAC, 220VDC				
Tana marched CC					
6 9 m	Please mention the voltage required after the ordering code				

PILOT LIGHTS WITH LED BULB						
	ТҮРЕ	COLOUR	ORDERING CODE			
	Pilot Light					
	LED Bulb, BA9S type	White LED Bulb / White Lens	P4PLB1LB(S)			
	24V AC/DC,	Green LED Bulb / Green Lens	P4PLB3LB			
	110VAC, 110VDC	Red LED Bulb / Red Lens	P4PLB4LB			
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P4PLB5LB			
		Blue LED Bulb / Blue Lens	P4PLB6LB			
		White LED Bulb / Clear Lens	P4PLB7LB(S)			
4015 ACT		Yellow LED Bulb / Yellow Lens	P4PLB8LB			
	Please mention the voltage required after the ordering code					

	ТҮРЕ	ORDERING CODE
Г	PANEL MOUNTING	
8	NORMALLY OPEN SILVER CONTACTS	C1
5000 TEKNIC°CC 3-0-0-4(NO) <b>-5NI.</b>	NORMALLY CLOSED SILVER CONTACTS	C2
EC/EN AC 15: 4150, 4A 8047-5-1 DC 13: 110V, 0.5A	NORMALLY OPEN GOLD CONTACTS	C3
	NORMALLY CLOSED GOLD CONTACTS	C4
	BASE MOUNTING	
1	NORMALLY OPEN SILVER CONTACTS	C5
	NORMALLY CLOSED SILVER CONTACTS	C6
ess/2-1 Du h3; 1104, 0.84	NORMALLY OPEN GOLD CONTACTS	C7
-	NORMALLY CLOSED GOLD CONTACTS	C8

#### Common types of control and signalling devices Ø 22.5 P4 Clip on series

Description	Type of Actuator or Lense Assembly		Contact Elements NO = C1 NC = C2 or Lamp Holder	Type of complete Control or Signalling Device	• 37 • 37
Flush Pushbutton	P4AF3	Green	1NO	P4PSF310	
	P4AF8	Yellow	2NO+1NC	P4PSF821	
Projecting Pushbutton	P4AP2	Black	2NC	P4PSP202	
	P4AP4	Red	3NO+3NC	P4PSP433	
Booted Pushbutton	P4AF3+2BT7	Green + clear bo	oot 2NO	P4PSF320+2BT7	
	P4AF4+2BT7	Red + clear boot	2NC	P4PSF402+2BT7	
Mushroom Pushbutton Spring	P4AM2	Black	1NO+1NC	P4PSM211	
return	P4AM4	Red	1NC	P4PSM401	
Mushroom Pushbutton	P4AML2	Black	1NC	P4PSML201	
latching turn to release	P4AML4	Red	2NO+2NC	P4PSML422	
Mushroom Pushbutton latching, key to release	P4AMLKB4	Red	1NO+1NC	P4PSMLKB411	
Selector Actuator (2 Pos)	P4AS2-2P	Black	1NO	P4PSS210-2P	
Selector Actuator (3 Pos)	P4AS2-3P	Black	1NO+1NC	P4PSS211-3P	
Key Actuator (2 Pos), key removable in both positions Key Actuator (3 Pos), key removable in left & right positions	P4AK2-2PB		1NO	P4PSK210-2PB	
	P4AK2-3PB		1NO+1NC	P4PSK211-3PB	
Twin Pushbutton marked "I O"		Flush-Gre	en 1NO	P4PSTF310-F401-I0	2.2
Flush - Flush	P4ATF2-F4-IC	Flush-Red	I 1 NC		4 30 →
Flush Illuminated Pushbutton with multichip LED bulb, direct connection	P4ALF3LB24I	DC Green	1NO+1NC	P4PSLF3LB1124	
Twin Luminous Pushbutton Without "I O"making Flush - Flush with LED Bulb (240V AC)	P4ATL5LB-F3 -F4230AC	Lense-Am Flush-Gre Flush-Red	en 1NC	P4PSTL5LBF310-F401230A	
Pilot Light with LED bulb for 230V AC Bulb: 230V	P4PLLA5	Amber	4LHLB230	P4PLB5LB230	