

SPECIFICATION

General

- Large range of watertight plastic pendant controllers for auxiliary circuits, fitted with 22mm dia. control and signalling units.
- Standard Plastic enclosures with double insulated and intuitive operating from 1 to 14 buttons. CPV model Die cast aluminium.
- Standard assembled units or empty enclosures and contacts to suit customer specifications.
- Applications:
Industry, Railways, Marine and Defence
All mechanical handling applications.

Environmental characteristics for auxiliary circuits

- Conforming to:** ➤ IEC 947-5.1; NFC 63140 / 63141
- Approvals:** ➤ BV - LROS - RINA - ASE - DEMKO - CSA - VDE - SEMKO - (UL)
- Housings:** ➤ Yellow polypropylene - CPV model die cast aluminium
Double insulated, except, auxiliaries for M&N positions & CPV model.
- Protection treatment:** ➤ Tropicalisation up to + 40°C at 95% humidity
- Ambient temperature:** ➤ **Storage** -40°C to +70°C
Operating -25°C to +70°C
- Electric shock protection:** ➤ Class 2
- Function positions:** ➤ All positions
- Degree of protection:** ➤ IP669 as per NFC 20 010
- Cable entrance:** ➤ Rubber sleeve
For 2 button pendant controllers Ø from 7 to 13mm
For 1 - 14 button pendant controllers Ø from 10 to 24mm

Technical data according to IEC 947-5.1

- Nominal thermal current:** ➤ 10A as per IEC 947-5.1
- Nominal insulation voltage:** ➤ 500V as per NFC 20 040
- Short time rating:** ➤ 250A for 100ms
- Insulation standard:** ➤ C as per NFC 20040
- Mechanical endurance:** ➤ **Push buttons** 1 x 10⁶
Switches 0.5 x 10⁶
- Connections:** ➤ Screw and clamping plate. Min. 1 x 0.5mm² / Max. 2.5mm²
- Contact operation mode:** ➤ 1 & 2 speed momentary contact blocks
- Voltage:** ➤ AC11 DC11
220 380 500 24 48 110
- Current:** ➤ 10 4.5 4 5 3 2

LC22 type self cleaning contacts

2 Way & 2 Way + Stop Controllers

BPI—2 Moving functions single speed

Standard assembled Pendants.		Polyamide housing.	
2 Buttons mechanically interlocked.	2 x 1 Normally open contacts.	BPI 5020 A	0.280 Kg.
	2 x 2 Normally open contacts.	BPI 2580 A	0.305 Kg.



BPI—2 Moving functions two speed

Standard assembled Pendants.		Polyamide housing.	
2 buttons mechanically interlocked.	2 x 1 Normally open + 1 Normally open contact.	BPI 5022 D	0.295 Kg.
	2 Speed.		



P03—2 Moving functions single speed + Stop Button

Standard assembled Pendants.		Polyamide housing.	
2 Buttons mechanically interlocked. Red latching mushroom stop.	2 x 1 Normally open contacts. 1 Normally closed Stop contact.	P03.1	0.484 Kg.



P03—2 Moving functions two speed + Stop Button

Standard assembled Pendants.		Polyamide housing.	
2 buttons mechanically interlocked. Red latching mushroom stop.	2 x 1 Normally open + 1 Normally open contact. 1 Normally closed Stop contact.	P03D2	0.510 Kg.
	2 Speed.		



CPV—2 Moving functions single speed

Standard assembled Pendants.		Die cast aluminium housing.	
2 Buttons	2 x 1 Normally open + 1 Normally closed contacts	CPV 5021	0.500 Kg.



CPV—2 Moving functions two speed

Standard assembled Pendants.		Die cast aluminium housing.	
2 buttons	2 x 1 Normally open + 1 Normally open contact.	CPV 5022	0.515 Kg.
	2 Speed.		



4/6 Way & 4 Way + Stop Controllers

BPI—4/6 Moving functions single speed

Standard assembled Pendants.	Polyamide housing.		
4 x 1 Normally open + 1 Normally closed contacts.	BPI 6041		0.490 Kg.
4 x 2 Normally open contacts.	BPI 3182		0.490 Kg.



BPI—4 Moving functions two speed

Standard assembled Pendants.	Polyamide housing.		
Double pressure switches with early break N/C contact	4 x 2 Normally open + 1 Normally closed contacts. 2 Speed.	BPI 6042	0.555 Kg.



BPI—4 Moving functions single speed + Mushroom Stop Button

Standard assembled Pendants.	Polyamide housing.		
30mm Dia. Stop button with 1 normally closed contact.	4 x 1 Normally open + 1 Normally closed contacts. + Stop	BPI 6048	0.595 Kg.
	4 x 2 Normally open contacts. + Stop	BPI ****	0.595 Kg.



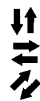
BPI—4 Moving functions two speed + Mushroom Stop Button

Standard assembled Pendants.	Polyamide housing.		
Double pressure switches. 30mm Dia. Stop button with 1 normally closed contact.	4 x 2 Normally open + 1 Normally closed contacts. 2 Speed. + Stop	BPI 6742	0.555 Kg.




8 & 12 Way + Stop Controllers

BPI—6/8/10 Moving functions single speed

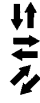

Standard assembled Pendants.	Polyamide housing.		
6 x 1 Normally open + 1 Normally closed contacts.	BPI 6061	0.680 Kg.	
8 x 1 Normally open + 1 Normally closed contacts.	BPI 6101	0.720 Kg.	
8 x 2 Normally open contacts	BPI 3148	0.720 Kg.	



BPI—6/8 Moving functions two speed

Standard assembled Pendants.	Polyamide housing.		
6 x 2 Normally open + 1 Normally closed contact. 2 Speed.	BPI 6062	0.845 Kg.	



BPI—6/8 Moving functions single speed + Start/Stop Buttons

Standard assembled Pendants.	Polyamide housing.			
Green flush Start button.	6 x 1 Normally open + 1 Normally closed contacts.	BPI 6781	0.875 Kg.	
Red latching mushroom stop 30 mm Dia.	1 Normally open Start + 1 Normally closed Stop contact.			
	8 x 1 Normally open + 1 Normally closed contacts.	BPI 6178	0.915 Kg.	
	1 Normally open Start + 1 Normally closed Stop contact.			

Red latching mushroom stop 30 mm Dia.	8 x 2 Normally open contacts.	BPI 3123	0.820 Kg.	
	2 Normally closed Stop contact.			

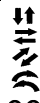


BPI—6/8 Moving functions two speed + Start/Stop Buttons

Standard assembled Pendants.	Polyamide housing.			
Green flush Start button.	6 x 2 Normally open + 1 Normally closed contacts. 2 Speed.	BPI 6782	0.935 Kg.	
Red latching mushroom stop 30 mm Dia.	1 Normally open Start + 1 Normally closed Stop contact.			
	8 x 2 Normally open + 1 Normally closed contacts. 2 Speed.	BPI 6172	0.995 Kg.	
	1 Normally open Start + 1 Normally closed Stop contact.			

12 Way & 12 Way + Stop Controllers

BPI—12 Moving functions single speed + Start/Stop Button

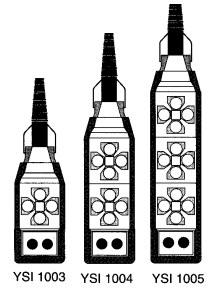
Standard assembled Pendants.	Polyamide housing.			
Green flush start button.	12 x 1 Normally open + 1 Normally closed contacts.	BPI 5121	1.110 Kg.	
Red flush stop button.	1 Normally open start + 1 Normally closed stop contacts			



EMPTY ENCLOSURES & CONTACTS

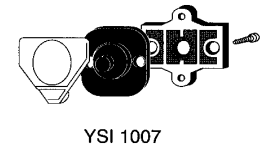
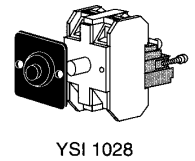
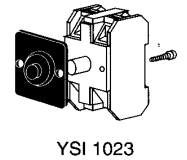
YSI Empty Enclosures - Polyamide Housing. - Temperature range -25 to + 70°C
 Empty enclosure includes: Base, cover, seal & screws, cable sleeve, support hook, support wire clamps & button plate without legend.

Protection IP669	4 + 2 way enclosure	YSI 1003	0.400 Kg.
	8 + 2 way enclosure	YSI 1004	0.515 Kg.
	10 + 2 way enclosure	YSI 1005	0.630 Kg.



Single speed contact assemblies for moving function keys.
 Including : Contact, neoprene seal and fixing screws

Self cleaning contacts for low current applications.	1 Normally open contact	YSI 1023	0.020 Kg.
	1 Normally closed contact	YSI 1024	0.020 Kg.
	1 Normally open + 1 Normally closed contacts	YSI 1025	0.026 Kg.
Max Amp AC11 10Amps— 220V 4.5Amps—380V 4.0Amps—500V	2 Normally open contacts	YSI 1026	0.026 Kg.
	2 Normally closed contacts	YSI 1027	0.026 Kg.



Dual speed contact assemblies for moving function keys.
 Including : Contact, neoprene seal and fixing screws

Self cleaning contacts for low current applications.	1 Normally open + 1 Normally open contacts	YSI 1028	0.031 Kg.
	1 Normally open + 1 Normally open + 1 early break, Normally closed contacts	YSI 1029	0.033 Kg.
Max Amp AC11 10Amps— 220V 4.5Amps—380V 4.0Amps—500V	Blanking key for moving function section. Including: Plate, neoprene seal and screws	YSI 1007	0.005 Kg.

Stop & Start options, with mushroom or flush actuators, for position "M & N"

Body assemblies are c/w "TJ" seal IP55	2 Normally closed contacts with single body assembly	L22 B 20VTJ	0.070 Kg.
	2 Normally open contacts with single body assembly	L22 B 2FVTJ	0.070 Kg.
	1 Normally open + 1 Normally closed contact with single body assembly	L22 B 101F VTJ	0.070 Kg.
	Flush actuators for above. *Black, red, yellow, green, blue or white.	YSI 1009*	0.025 Kg.
	30mm Dia. Mushroom operator. Red. (Spring return operated)	YSI 1038	0.029 Kg.
	30mm Dia. Mushroom operator. Red. (Push/Pull operated)	YSI 1039	0.086 Kg.



Mechanically Interlocked & latching pairs for position "M & N"

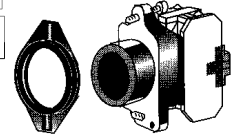
2NO + 2NC Interlocked & latching contact body assembly	L22 P 202F**	0.156 Kg.
Flush actuators for above. Red or green.	YSI 1034/5	0.029 Kg.
Raised button to accept a padlock. Green.	YSI 1037	0.031 Kg.
Blanking plug for position "M & N"	YSI 1008	0.005 Kg.

ROTARY SELECTORS & INDICATOR LAMPS

Rotary Contact assemblies for position "M & N"

Self cleaning contacts for low current applications.	2 Normally open contacts - 3 Way	L22 8901VTJ	0.085 Kg.
	2 Normally open contacts - 2 Way	L22 8951VTJ	0.085 Kg.

Max Amp AC11
 10Amps— 220V
 4.5Amps—380V
 4.0Amps—500V



TJ L22 8101 V

Actuators for above switch assemblies

Black centred Rotary switch	YSI 1069	0.034 Kg.
Black offset Rotary switch	YSI 1044	0.034 Kg.
2 position key switch. Key withdrawn at position (1)	YSI 1051 1	0.098 Kg.
3 position key switch. Key withdrawn at position (1)	YSI 1087 1	0.098 Kg.



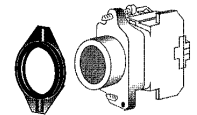
YSI 1044



YSI 1051 .

Indicator lamps for position "M & N"

Lamp holder body assembly for Ba9S bulb	YSI 1043VTJ	0.075 Kg.
Lens for above, flush fitting. Red, Yellow, Green, Blue, Clear & White	YSI 1042*	0.016 Kg.
12 volt bulb	Ba9S 12V	0.002 Kg.
24 volt bulb	Ba9S 24V	0.002 Kg.
48 volt bulb	Ba9S 48V	0.002 Kg.
220 volt bulb	Ba9S 220V	0.002 Kg.



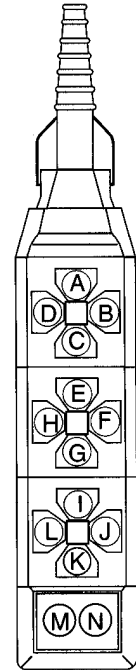
YSI 1043



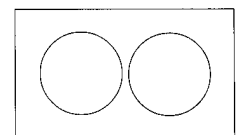
YSI 1042 .

LEGEND PLATES

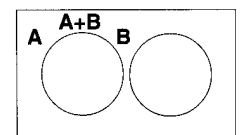
Description	Symbol	Part no.	Symbol	Part no.	Symbol	Part no.			
<ul style="list-style-type: none"> ● Labels - Adhesive labels - Standard symbols for buttons from "A" to "L" - Standard colours Symbol : black - white Background : black - white 	Normal		Fast speed		Normal and fast speed				
	Lifting raise		PAI250 A00190- 1		PAI250 A00390- 2		PAI250 A00590- 3		
	Lifting lower		PAI250 A00109- 4		PAI250 A00309- 5		PAI250 A00509- 6		
	Traverse right		PAI250 A00190- 7		PAI250 A00390- 8		PAI250 A00590- 9		
	Traverse left		PAI250 A00109- 10		PAI250 A00309- 11		PAI250 A00509- 12		
	Travel forward		PAI250 A00190- 13		PAI250 A00390- 14		PAI250 A00590- 15		
	Travel reverse		PAI250 A00109- 16		PAI250 A00309- 17		PAI250 A00509- 18		
	Rotation right		PAI250 A00290- 19		PAI250 A00490- 20		PAI250 A00690- 21		
	Rotation left		PAI250 A00209- 22		PAI250 A00409- 23		PAI250 A00909- 24		
	Switching ON		PAI250 A00759	Switching OFF		PAI250 A00829	Horn		PAI250 A00909
		Background : green Symbol : white		Background : red Symbol : white		Background : black Symbol : white			



For "M" and "N" buttons
Label : white
Symbol : black



PAI251 A00000



PAI251 A00090



Inscription	Colour text / back.	Inscription	Colour text / back.
- OFF	PAI250A50129 white red	- IN	PAI250A51390 black white
- STOP	PAI250A50229 white red	- LEFT	PAI250A51490 black white
- ON	PAI250A50359 white green	- FAST	PAI250A51590 black white
- START	PAI250A50459 white green	- OUT	PAI250A51690 black white
- UP	PAI250A50590 black white	- RIGHT	PAI250A51790 black white
- DOWN	PAI250A50690 black white	- SLOW	PAI250A51890 black white
- NORTH	PAI250A50790 black white	- INCH	PAI250A51990 black white
- SOUTH	PAI250A50890 black white	- TRAVEL	PAI250A52090 black white
- EAST	PAI250A50990 black white	- TRAVERSE	PAI250A52190 black white
- WEST	PAI250A51090 black white	- SUPPLY ON	PAI250A52290 black white
- FORWARD	PAI250A51190 black white	- HOIST	PAI250A52390 black white
- REVERSE	PAI250A51290 black white	- HORN	PAI250A52490 black white

Special hand written labels

Red	Yellow	Green	Blue	Grey	Black	White
PAI250 A00022	PAI250 A00044	PAI250 A00055	PAI250 A00066	PAI250 A00088	PAI250 A00099	PAI250 A00000