

Pendant control boxes



Creating control and signalling solutions
for harsh environments.



Visit MAFELEC at our website: www.mafelec.fr



MAFELEC is a specialist in the design of control and signalling components intended to operate in the cold, heat, projections of liquids, dust, shock, vibration, ...



Exemples of applications :
External controls for a compactor.



Railway control station.

THE QUALITY APPROACH

In a context where markets are ever more competitive, MAFELEC stands out for its voluntarist quality approach, aimed at customer satisfaction.

Very active involvement at all levels in the Company has enabled MAFELEC to obtain certification to :

- ISO 9001 V2000
- OTIS Q+ (Otis lifts)
- AQAP 110 (Defence)
- RQPF (Paris Underground/Subway)

Strengthened by our success in Quality, the Company is continuing its efforts towards a certified environmental approach :

ISO 14001

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Pendant control boxes

Adaptability
Modularity
Safety
Reliability



The range of possibilities :

A very wide range

- The versions presented in this catalogue are not exhaustive.
- From 2 to 12 functions, multiplied by contact options such as double push providing for two movement speeds.
- Possibility of adding 2 control and signalling components. E-stop, indicator light, interlocked buttons ...

Original ergonomics

- The "star" layout of the large keys is specially designed for immediate comprehension, and instinctive, sure manoeuvring even when wearing gloves.
- By their shape and size, the control boxes are easy to hold. They are fitted with a hook for hanging them up, or on option, with traction cables and handles.

Sealing and robustness

- Watertight per IP66 and shock resistance per IK8 intensive use in harsh environments.



Our equipment complies with European RoHS directive, restricting the use of certain dangerous substances in electrical equipment.

Pendant control boxes



General characteristics

Standard plastic control boxes with double insulation and intuitive controls from 1 to 14 buttons.

Modular control boxes, delivered made-up or in kits, to the customer's requirements.

Applications:

All lifting, handling and auxiliary control applications.

- Industry / Railway industry / Defence

Environmental characteristics

| | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Certification | IEC & NF EN 60 947-5-1 - DEMKO - CSA |
| Housings | Yellow polypropylene Double insulation (except for bottom holes) |
| Protective finish | Tropicalisation (operating at + 40°C with 95% humidity) |
| Storage temperature | - 40°C +70°C |
| Operating temperature | - 25°C +70°C |
| Protection against surges | Class 2 per IEC & NF EN 61 140 |
| Protection against mechanical shock | IK08 per IEC & NF EN 62 262 |
| Degree of protection | IP 66 per IEC & NF EN 60 529 |
| Cable input | Cable sleeve For control boxes with 2 motions: Ø from 7 to 13 mm For control boxes 2 to 14 motions: Ø from 10 to 22 mm |

Characteristics of the electrical stack

| | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Nominal thermal current | Ith 10 A |
| Rated insulation voltage | Ui = 500 V |
| Rated surge voltage | 6 kV |
| Dielectric strength | 2.5 kV |
| Insulation category | C per IEC & NF EN 60 664 |
| Mechanical life expectancy | Pushbuttons : 1 x 10 ⁶ operations Rotary switches : 0.3 x 10 ⁶ operations |
| Connection | Screw with clamping plate: min. 1 x 0.5 mm ² / max. : 2x2.5 mm ² |
| Contact operating mode | One- or two-speed contact blocks, positive contact opening. Self-cleaning contacts (1NO = 1 Normally Open; 1NC = 1 Normally Closed) |
| Operating power | AC 15: 230 / 400V - 8 / 4A DC 13: 24 V / 10 A |

Pendant control boxes



2-motion BPI

2-motion, 1-speed

| Motion | Contact | Schematic | Part number | Weight kg |
|-------------------------------------|---------------------------------------------------------|-----------|-------------------|-----------|
| 2 buttons with mechanical interlock | 2 x 1NO | | BPI 5020 A | 0.280 |
| | 2 x 1NC 1NO | | BPI 5021 A | 0.285 |
| | 2 x 2NO | | BPI 2580 A | 0.305 |
| | 2 x 2NO + 1NC (single push with early-break contact) | | BPI 2527 A | 0.305 |

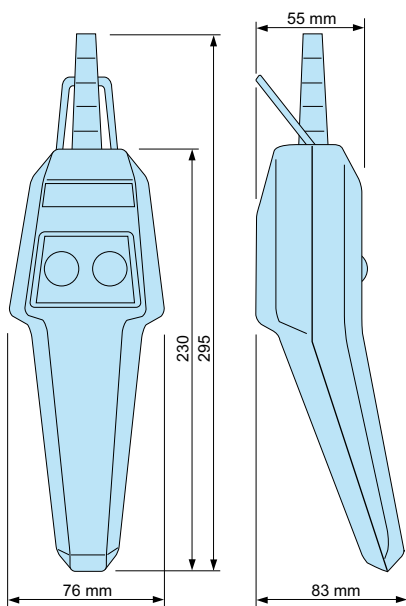


2-motion, 2-speed

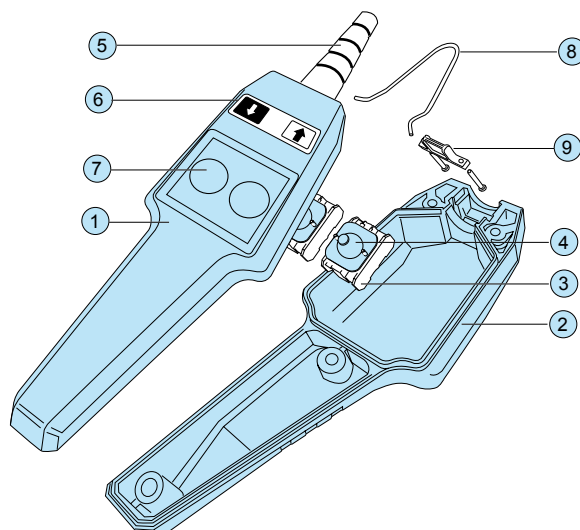
| Motion | Contact | Schematic | Part number | Weight kg |
|-------------------------------------|---------------------------------------------------------------|-----------|-------------------|-----------|
| 2 buttons with mechanical interlock | 2 x 1NO + 1NO (double push contact) | | BPI 5022 D | 0.295 |
| | 2 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 5023 D | 0.295 |



Dimensions



- 1 - Housing base
- 2 - Housing cover
- 3 - Contact block
- 4 - Contact block seal
- 5 - Cable sleeve
- 6 - Label
- 7 - Rocker actuator
- 8 - Hook
- 9 - Cable clamp



Pendant control boxes



Components for 2-motion BPI

Housing

| Description | Motion | Part number | Weight kg |
|-------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----------|
| - Constituent parts : . Base . Cover + gasket + screws . Sleeve for Ø 7 to 13 mm . Cable clamp (fitted) . Hook | 1 - 2 | YSI 1012 | 0.240 |



Electrical stack

| Description | Contact | | Part number | Weight kg |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|--|-----------------|-----------|
| 1 speed - Constituent parts: . Contact block . Seal . 2 screws | 1NO | | YSI 1023 | 0.020 |
| | 1NC | | YSI 1024 | 0.020 |
| | 1NC 1NO | | YSI 1025 | 0.026 |
| | 2NO | | YSI 1026 | 0.026 |
| | 2NC | | YSI 1027 | 0.026 |
| | 2NO + 1NC | | YSI 1046 | 0.033 |
| 2 speeds - Constituent parts: . Contact bloc . seal . 2 screws | 1NO +1NO (double push contact) | | YSI 1028 | 0.031 |
| | 1NO +1NO 1NC (double push contact with early-break contact) | | YSI 1029 | 0.033 |



Electrical stack with 1 or 2 contacts



Electrical stack with 1 or 2 contacts + 1 early-break contact

Cable sleeve

| Description | Part number | Weight kg |
|----------------------|-------------------|-----------|
| - Ø 7 to 13 mm cable | MAI 660 A0 | 0.015 |



Adhesive labels

| Description | Part number | Weight kg |
|---------------------------------|-------------------|-----------|
| Normal 1 speed Up / Down | PXI 618 A1 | 0.001 |
| Normal 1 speed Up / Down | PXI 088 A1 | 0.001 |
| On / Off | PXI 090A1 | 0.001 |
| Normal Left / Right | PXI 091 A1 | 0.001 |
| 2 speeds Down / Up | PXI 092A1 | 0.001 |
| 1 speed / 2 speeds Down / Up | PXI 098 A1 | 0.001 |
| 2 speeds / 1 speed Down / Up | PXI 099 A1 | 0.001 |



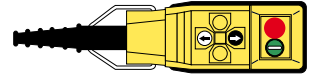
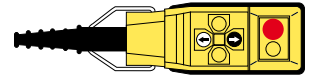
Pendant control boxes



2 + 2-function BPI

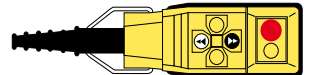
2-motion, 1-speed + auxiliaries

| Auxiliaries (M & N see p7) | Contact (motion keys) | Schematic | Part number | Weight kg |
|----------------------------------------------------------------------|----------------------------------------------------------|-----------|-----------------|-----------|
| - Latching pushbutton Ø 30- 1NC | 2 x 1NO | | BPI 6037 | 0.545 |
| | 2 x 1NC 1NO | | BPI 6038 | 0.545 |
| I - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 2 x 2NO 1NC (single push with early-break contact) | | BPI 6738 | 0.570 |



2-motion, 2-speed + auxiliaries

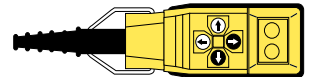
| | | | | |
|------------------------------------|------------------------------------------------------------------|--|-----------------|-------|
| - Latching pushbutton Ø 30- 1NC | 2 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6732 | 0.620 |
|------------------------------------|------------------------------------------------------------------|--|-----------------|-------|



4 + 2-function BPI

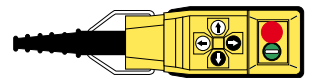
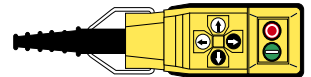
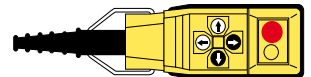
4-motion, 1-speed

| | | | |
|-------------|--|-----------------|-------|
| 4 x 1NO | | BPI 6040 | 0.490 |
| 4 x 1NC 1NO | | BPI 6041 | 0.490 |



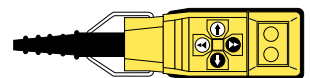
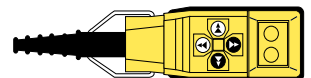
4-motion, 1-speed + auxiliaries

| | | | | |
|-------------------------------------------------------------------------|-------------|--|-----------------|-------|
| - Latching pushbutton Ø 30- 1NC | 4 x 1NO | | BPI 6047 | 0.595 |
| | 4 x 1NC 1NO | | BPI 6048 | 0.595 |
| I - Flush green pushbutton 1NO O - Flush red pushbutton 1NC | 4 x 1NO | | BPI 5040 | 0.690 |
| | 4 x 1NC 1NO | | BPI 5041 | 0.690 |
| I - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 4 x 1NO | | BPI 5740 | 0.690 |
| | 4 x 1NC 1NO | | BPI 5741 | 0.690 |



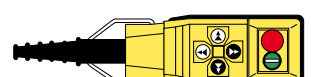
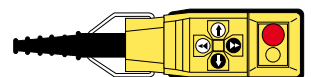
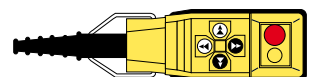
4-motion, 2-speed

| | | | |
|---------------------------------------------------------------------------------|--|-----------------|-------|
| 4 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6042 | 0.555 |
| 2 x 1NO + 1NO + 1NC (double push with early-break contact) 2 x 1NC 1NO | | BPI 6043 | 0.525 |



4-motion, 2-speed + auxiliaries

| | | | | |
|--------------------------------------------------------------------|------------------------------------------------------------------|--|-----------------|-------|
| - Latching pushbutton Ø 30- 1NC | 4 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6742 | 0.885 |
| - Latching pushbutton Ø 30- 1NC | 2 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6743 | 0.780 |
| | 2 x 1NC 1NO | | | |
| - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 4 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 5742 | 0.885 |



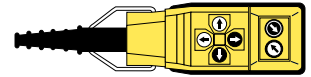
Pendant control boxes



6-motion and 6 + 2-function BPI

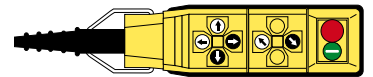
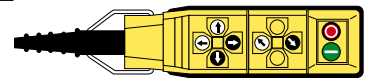
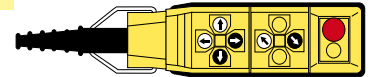
6-motion, 1-speed

| Auxiliaries (M & N see p7) | Contact (motion keys) | Schematic | Part number | Weight kg |
|----------------------------|-----------------------|-----------|-----------------|-----------|
| | 6 x 1NO | | BPI 6060 | 0.680 |
| | 6 x 1NC 1NO | | BPI 6061 | 0.680 |



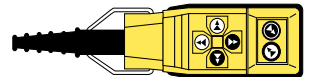
6-motion, 1-speed + auxiliaries

| | | | | |
|-------------------------------------------------------------------------|-------------|--|-----------------|-------|
| - Latching pushbutton Ø 30- 1NC | 6 x 1NO | | BPI 6067 | 0.780 |
| | 6 x 1NC 1NO | | BPI 6068 | 0.780 |
| I - Flush green pushbutton 1NO O - Flush red pushbutton 1NC | 6 x 1NO | | BPI 6080 | 0.875 |
| | 6 x 1NC 1NO | | BPI 6081 | 0.875 |
| I - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 6 x 1NO | | BPI 6780 | 0.875 |
| | 6 x 1NC 1NO | | BPI 6781 | 0.875 |



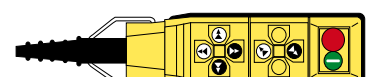
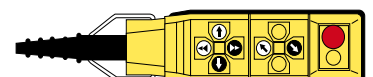
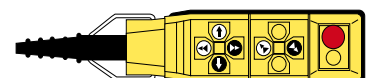
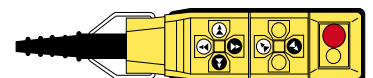
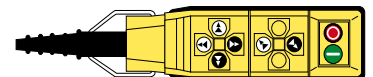
6-motion, 2-speed

| | | | |
|------------------------------------------------------------------|--|-----------------|-------|
| 6 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6062 | 0.935 |
|------------------------------------------------------------------|--|-----------------|-------|



6-motion, 2-speed + auxiliaries

| | | | | |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|--|-----------------|-------|
| I - Flush green pushbutton 1NO O - Flush red pushbutton 1NC | 6 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6082 | 0.935 |
| - Latching pushbutton Ø 30- 1NC | 6 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6762 | 0.845 |
| - Latching pushbutton Ø 30- 1NC | 4 X 1NO + 1NO + 1NC (double push with early-break contact) 2 x 1NC 1NO | | BPI 6763 | |
| - Latching pushbutton Ø 30- 1NC | 2 X 1NO + 1NO + 1NC (double push with early-break contact) 4 x 1NC 1NO | | BPI 6764 | |
| - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 6 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6782 | 0.935 |
| - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 4 x 1NO + 1NO + 1NC (double push with early-break contact) 2 x 1NC 1NO | | BPI 6783 | 0.935 |
| - Flush green pushbutton 1NO - Latching pushbutton Ø 30- 1NC | 2 x 1NO + 1NO + 1NC (double push with early-break contact) 4 x 1NC 1NO | | BPI 6784 | 0.935 |



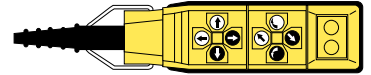
Pendant control boxes



8-motion and 8 + 2-function BPI

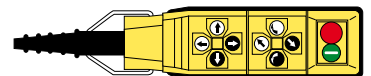
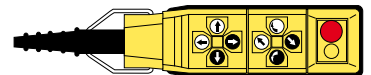
8-motion, 1-speed

| Auxiliaries (M & N see p7) | Contact (motion keys) | Schematic | Part number | Weight kg |
|----------------------------|-----------------------|-----------|-----------------|-----------|
| | 8 x 1NO | | BPI 6100 | 0.720 |
| | 8 x 1NC 1NO | | BPI 6101 | 0.720 |

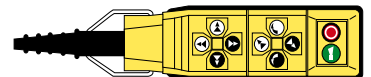


8-motion, 1-speed + auxiliaries

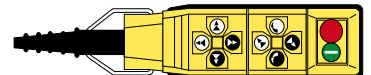
| | | | | |
|------------------------------------------------------------------------|-------------|--|-----------------|-------|
| - Latching pushbutton Ø 30-1NC | 8 x 1NO | | BPI 6107 | 0.820 |
| | 8 x 1NC 1NO | | BPI 6108 | 0.820 |
| I - Flush green pushbutton 1NO - Latching pushbutton Ø 30-1NC | 8 x 1NO | | BPI 6177 | 0.915 |
| | 8 x 1NC 1NO | | BPI 6178 | 0.915 |



| | | | | |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|--|-----------------|-------|
| Flush green pushbutton (horn symbol) 2NO O - Flush red pushbutton 1NC | 8 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6102 | 0.995 |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|--|-----------------|-------|



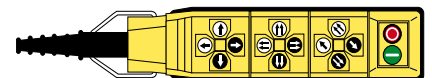
| | | | | |
|------------------------------------------------------------------------|------------------------------------------------------------------|--|-----------------|-------|
| I - Flush green pushbutton 1NO - Latching pushbutton Ø 30-1NC | 8 x 1NO + 1NO + 1NC (double push with early-break contact) | | BPI 6172 | 0.995 |
|------------------------------------------------------------------------|------------------------------------------------------------------|--|-----------------|-------|



12 + 2-function BPI

12-motion, 1-speed + auxiliaries

| Auxiliaries (M & N see p7) | Contact (motion keys) | Schematic | Part number | Weight kg |
|-----------------------------------|-----------------------|-----------|-----------------|-----------|
| I - Flush green pushbutton 1NO | 12 x 1NO | | BPI 5120 | 1.110 |
| O - Flush red pushbutton 1NC | 12 x 1NC 1NO | | BPI 5121 | 1.110 |

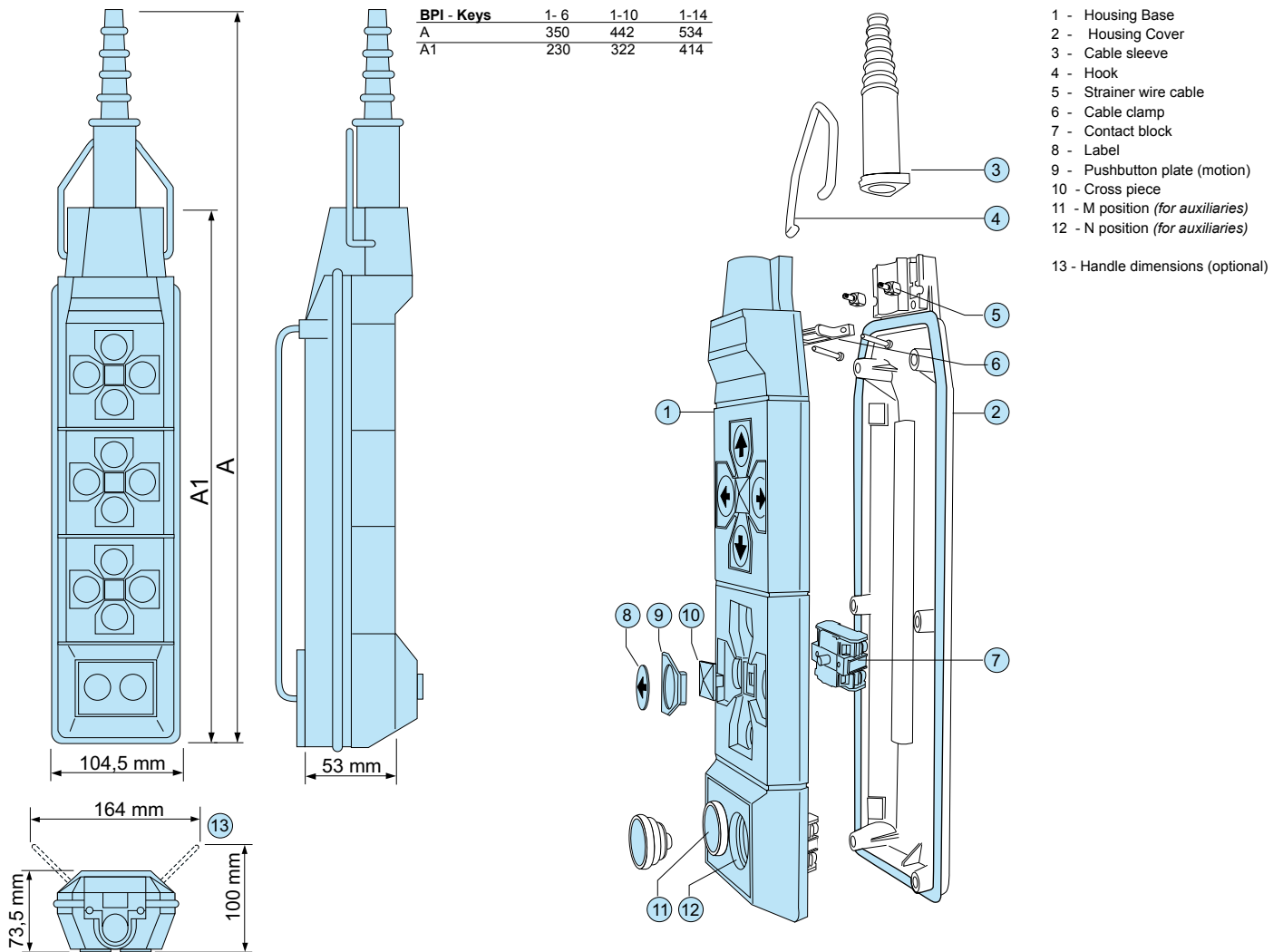


Pendant control boxes



Dimensions

2 to 12-motion + auxiliaries BPI



Options for M and N bottom holes

Flush / Mushroom / Momentary / key-operated pushbuttons



Interlocked pushbuttons



Blanking Plug



Latching mushroom / key-operated pushbuttons



Rotary and key switches



Indicator lights



Pendant control boxes



Components for 2 to 12-motion BPI

Housing

| Description | Motion | Part number | Weight kg |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----------|
| - Constituent parts : <ul style="list-style-type: none"> . Base . Cover + gasket + screws . Sleeve for Ø 10 to 22 mm cable . Hook . Cable clamp (fitted) . Button plate and cross piece fitted, (but without labels) . Strainer wire cable | 1 - 6 | YSI 1003 | 0.400 |
| | 1 - 10 | YSI 1004 | 0.515 |
| | 1 - 14 | YSI 1005 | 0.630 |



contact block

| Description | Contact | | Part number | Weight kg |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--|-----------------|-----------|
| 1 speed | | | | |
| - Constituent parts: <ul style="list-style-type: none"> . Contact block shell . Seal . 2 screws | 1NO | | YSI 1023 | 0.020 |
| | 1NC | | YSI 1024 | 0.020 |
| | 1NC 1NO | | YSI 1025 | 0.026 |
| | 2NO | | YSI 1026 | 0.026 |
| | 2NC | | YSI 1027 | 0.026 |
| | 2NO + 1NC (single push with early-break contact) | | YSI 1046 | 0.033 |
| 2 speeds | | | | |
| - Constituent parts: <ul style="list-style-type: none"> . Contact block shell . Seal . 2 screws | 1NO + 1NO (double push contact) | | YSI 1028 | 0.031 |
| | 1NO + 1NO + 1NC (double push with early-break contact) | | YSI 1029 | 0.033 |



Electrical stack with 1 or 2 contacts



Electrical stack with 1 or 2 contacts + 1 early-break contact

Neutral key

| Description | | Part number | Weight kg |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-----------|
| - Constituent parts: <ul style="list-style-type: none"> . Seal . Neutral block plate . 2 screws | For ABC ... KL button plate | YSI 1007 | 0.010 |



BlankingPlug

| Description | | Part number | Weight kg |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-----------|
| - Constituent parts: <ul style="list-style-type: none"> . Plug . O-ring . Clip | For M and N positions | YSI 1008 | 0.005 |



Cable sleeve

| Description | | Part number | Weight kg |
|-----------------------|--|-------------------|-----------|
| - Ø 10 to 22 mm cable | | JMI 002 B1 | 0.045 |



Pendant control boxes

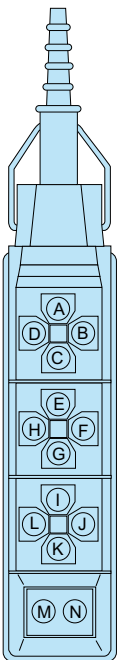


Components for 2 to 12-motion BPI

Labels

| Description | Symbol | Part number | Symbol | Part number | Symbol | Part number |
|----------------------------------------------------------------------------|--------------------------------------|-------------------|------------------------------------|-------------------|--------------------------------------|-------------------|
| | Normal | | Fast | | Normal & fast | |
| - Adhesive labels | | | | | | |
| - Standard Symbols for buttons "A" to "L" | | | | | | |
| - Standard Colours Symbol : black - white Background : white - black | | | | | | |
| | UP | | | | | |
| | | PAI250 A00190- 1 | | PAI250 A00390- 2 | | PAI250 A00590- 3 |
| | DOWN | | | | | |
| | | PAI250 A00109- 4 | | PAI250 A00309- 5 | | PAI250 A00509- 6 |
| | RIGHT | | | | | |
| | | PAI250 A00190- 7 | | PAI250 A00390- 8 | | PAI250 A00590- 9 |
| | LEFT | | | | | |
| | | PAI250 A00109- 10 | | PAI250 A00309- 11 | | PAI250 A00509- 12 |
| | FORWARD | | | | | |
| | | PAI250A00190- 13 | | PAI250 A00390- 14 | | PAI250 A00590- 15 |
| | REVERSE | | | | | |
| | | PAI250 A00109- 16 | | PAI250 A00309- 17 | | PAI250 A00509- 18 |
| | ROTATE RIGHT | | | | | |
| | | PAI250 A00290- 19 | | PAI250 A00490- 20 | | PAI250 A00690- 21 |
| | ROTATE LEFT | | | | | |
| | | PAI250 A00209- 22 | | PAI250 A00409- 23 | | PAI250 A00609- 24 |
| | ON | | OFF | | HORN | |
| | | PAI250 A00759 | | PAI250 A00829 | | PAI250 A00909 |
| | Background : green Symbol : white | | Background : red Symbol : white | | Background : black Symbol : white | |

Key identification



| Marking | Part number | Text/background colour | Marking | Part number | Text/background colour |
|-----------|--------------|------------------------|-------------|--------------|------------------------|
| - 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 |

Blank label
For "M" and "N" keys

PAI251A00000

Special marking :
contact us



Pendant control boxes



Auxiliaries for M and N bottom holes

Pushbutton subassemblies for M and N keys

| Description | Contact | Colour | Part number | Weight kg |
|-------------------------------------------------------------------------------------------------------------|---------|--------|-----------------------|-----------|
| Body contact block - With IP55 seal plate (TJ) | 1NC | | L22 B 10 V TJ | 0.064 |
| | 2NC | | L22 B 20 V TJ | 0.070 |
| | 1NO | | L22 B 1F V TJ | 0.064 |
| | 2NO | | L22 B 2F V TJ | 0.070 |
| | 1NC 1NO | | L22 B 101FV TJ | 0.070 |
| Anti-rotation Body contact block - With IP65 seal plate (TJ) | 1NC | | L22 B 10 AR V TJ | 0.064 |
| | 2NC | | L22 B 20 AR V TJ | 0.070 |
| | 1NO | | L22 B 1F AR V TJ | 0.064 |
| | 2NO | | L22 B 2F AR V TJ | 0.070 |
| | 1NC 1NO | | L22 B 101F AR V TJ | 0.070 |
| Vandal-proof contacts - raised (CN) tips contact versions ("latch before breaking") | 1NC | | L22 B 10 RC V TJ | 0.064 |
| | 2NC | | L22 B 20 RC V TJ | 0.070 |
| | 1NC 1NO | | L22 B 101F RC V TJ | 0.064 |
| Heads - Flush pushbutton Black plastic bezel | | Black | YSI 1009 0 | 0.025 |
| | | Red | YSI 1010 | 0.025 |
| | | Yellow | YSI 1009 4 | 0.025 |
| | | Green | YSI 1009 5 | 0.025 |
| | | Blue | YSI 1009 7 | 0.025 |
| | | White | YSI 1009 9 | 0.025 |
| Anti-rotation heads - Flush pushbutton Black plastic bezel | | Black | YSI 1009 0 AR | 0.025 |
| | | | | |
| - Momentary mushroom pushbutton, Ø 30 mm Black plastic bezel | | Red | YSI 1038 | 0.029 |
| - Latch mushroom push-pull button, Ø 30 mm Black metal bezel | | Red | YSI 1039 | 0.086 |
| Lockable mushroom push-pull button, Ø 30 mm - Reset with Ronis No 620 key Black metal bezel | 1NC | Red | L22 BPSR 33 10 V TJ | 0.113 |
| | 2NC | Red | L22 BPSR 33 20 V TJ | 0.119 |
| | 1NC 1NO | Red | L22 BPSR 33 101F V TJ | 0.119 |



Interlocked pushbuttons subassemblies

| Description | Contact | Colour | Part number | Weight kg |
|-----------------------------------------------------------|---------|--------|-----------------|-----------|
| Body - With IP 55 seal plate (TJ) | 2NC 2NO | | L22 P 202F V TJ | 0.144 |
| Heads - Flush pushbutton Black plastic bezel | | Green | YSI 1035 | 0.029 |
| | | Red | YSI 1034 | 0.029 |



Pendant control boxes



Auxiliaries for M and N bottom holes

Rotary switch subassemblies

Rotary contact block - With IP55 seal plate (TJ)

| Standardised schematic | Motion | Part number | Weight kg |
|------------------------|-----------------------------------------|-----------------------|-----------|
| | ON/OFF switch: One pole Two-poles | L22 8101 V TJ | 0.079 |
| | | L22 8102 V TJ | 0.085 |
| | Single-pole inverteur | L22 8901 V TJ | 0.085 |
| | Two-poles inverteur | L22 8902 V TJ | 0.111 |
| | One-pole inverteur | L22 8951 V TJ | 0.085 |
| | Two-poles inverteur | L22 8952 V TJ | 0.111 |
| | One-pole inverteur | L22 HC 98 V TJ | 0.111 |



| | | | |
|------------------------------------------|----------------|-----------------|-------|
| Rotary Heads | Vertical black | YSI 1069 | 0.034 |
| - S-type (short) paddle Plastic bezel | Offset black | YSI 1044 | 0.034 |



Indicator light subassemblies

| Description | Colour | Part number | Weight kg |
|------------------------------------------------------------------------------------------------------------------|--------|----------------------|-----------|
| Body light block (delivered without bulbs) - Bulbs, max. 3W - Ba9S socket - IP55 seal plate (TJ) | | YSI 1043 V TJ | 0.075 |
| Light Heads - Flush, Plastic bezel | Red | YSI 1042 2 | 0.016 |
| | Yellow | YSI 1042 4 | 0.016 |
| | Green | YSI 1042 5 | 0.016 |
| | Blue | YSI 1042 6 | 0.016 |
| | Opal | YSI 1042 8 | 0.016 |
| | White | YSI 1042 9 | 0.016 |



Pendant control boxes



Spare parts

| Description | Nbr of holes | Part number | Weight kg |
|------------------------------------------------------------------------|--------------|--------------------|-----------|
| Housing Base | 1 - 6 | MCI 016 B4 | 0.150 |
| | 1 - 10 | MCI 017 B4 | 0.230 |
| | 1 - 14 | MCI 018 B4 | 0.320 |
| Housing Cover | 1 - 6 | MCI 019 B4 | 0.110 |
| | 1 - 10 | MCI 020 B4 | 0.150 |
| | 1 - 14 | MCI 021 B4 | 0.190 |
| Cover gasket | 1 - 6 | JEI 002 A2 | 0.025 |
| | 1 - 10 | JEI 002 A3 | 0.030 |
| | 1 - 14 | JEI 002 A4 | 0.035 |
| Complete kit 4 button-plates + cross piece (with screw) | | YSI 1094 | 0.010 |
| Contact block seal | | JMK 018 A0 | 0.002 |
| Cable clamp | | MAJ 650 A1 | 0.002 |
| Hook | | EPI 058 B1 | 0.020 |
| Strainer wire cable | | YSI 1006 | 0.010 |
| Handles, in pairs (optional) | 1 - 6 | YSI 1016 | 0.220 |
| | 1 - 10 | YSI 1017 | 0.330 |
| | 1 - 14 | YSI 1018 | 0.440 |
| IP55 seal plate | | TJ | 0.006 |
| Screw (base / cover assembly) | | KBL 40x22/9 | |





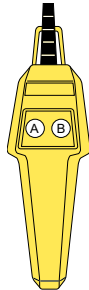
Pendant control boxes

Specific BPI control boxes

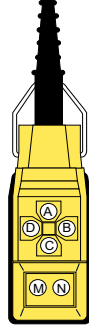


Definition chart

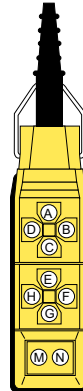
1- Select the type of housing



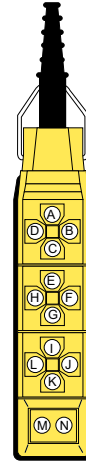
BPI 2



BPI 1/6



BPI 1/10



BPI 1/14

2- Define your motion button-plates from A to L

| BPI 2 | BPI 1/6 | BPI 1/10 | BPI 1/14 | keys | Contact block P/N | Label P/N | Specify if not used |
|-------|---------|----------|----------|------|-------------------|-----------|---------------------|
| | | | | A | | | |
| B | | | | | | | |
| C | | | | | | | |
| D | | | | | | | |
| E | | | | | | | |
| F | | | | | | | |
| G | | | | | | | |
| H | | | | | | | |
| I | | | | | | | |
| J | | | | | | | |
| K | | | | | | | |
| L | | | | | | | |

3- Select your auxiliaries for the M & N holes (pages 12 & 13)

| Hole | Breaking Plug (YSI 1008) | Latch mushroom pushbutton | Latch mushroom pushbutton with raised tips | Lockable mushroom pushbutton | Rotary switch | Indicator | Push button | Anti-rotation pushbutton | Interlock |
|------|--------------------------|---------------------------|--------------------------------------------|------------------------------|---------------|-----------|-------------|--------------------------|-----------|
| M | | | | | | | | | |
| N | | | | | | | | | |

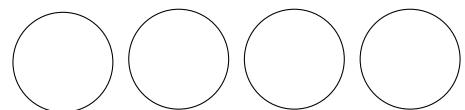
3-2 Select the body and head

| Hole | Body | Head |
|------|------|------|
| M | | |
| N | | |

3-3 Labels - if required

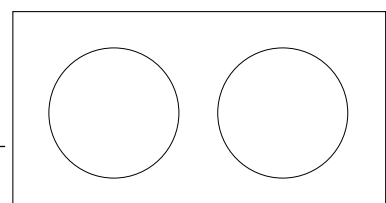
Standard circular labels for anti-rotation pushbutton, or customised circular labels (specify)

| | |
|---|--|
| M | |
| N | |

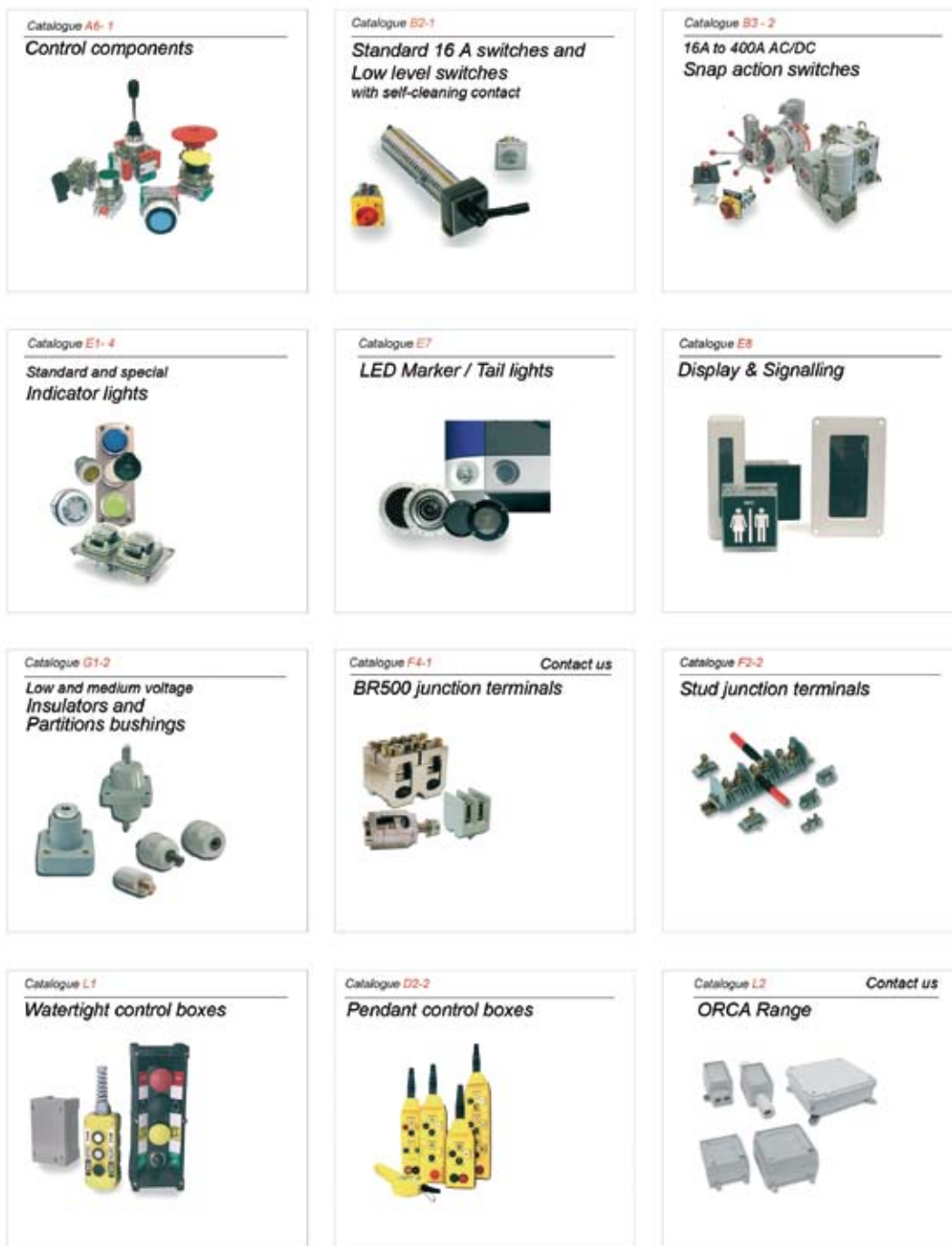


Double blank label

or
Double customised label (specify marking)



Consult our other catalogues



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