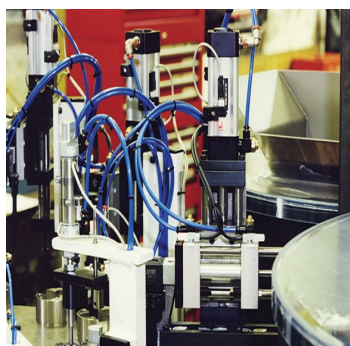
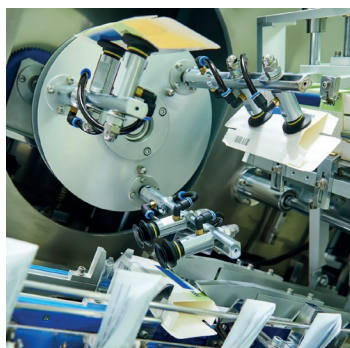
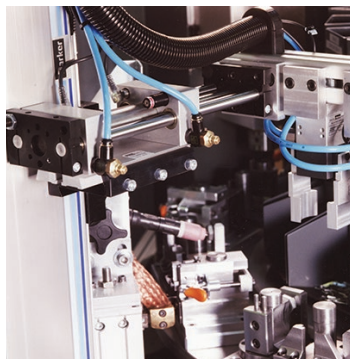




Human/Machine Dialogue

Push-buttons, Two-hand control units

PDE2627TCUK November 2022



ENGINEERING YOUR SUCCESS.



Important !

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



NB !

All technical data in this catalogue is typical only.

The air quality is decisive for the valve life: see ISO 8573.



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

SALE CONDITIONS

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

Push button valves Ø 22

Generalities4

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Two-hand control units

Generalities 11

References 12

Dimensions 13

- Facia mounted operator
- 3/2 NO or NC
- Pneumatic valves combinable with electrical switches
- Modular construction (up to 3 valves per pushbuttons heads)
- Wide range of actuators



Operating and additional information

Working pressure

PXB-B3••	1 to 9 bar
PXB-B4••	1 to 10 bar

Working temperature	-15 °C to +60 °C
---------------------	------------------

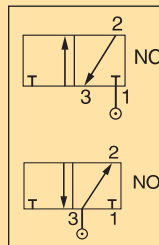
Flow

(acc. to ISO 6358)

PXB-B3••	Q _{max} =60 NI/min Q _n = 30 NI/min
PXB-B4••	Q _{max} =240 NI/min Q _n = 120 NI/min

Connections

Ø4 mm straight Push-in as standard
Ø4 mm swivel Push-in on request
M5 on request



All PXB-B4 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3.

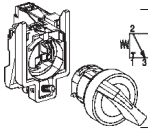
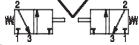
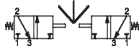
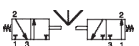
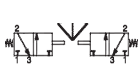
Spring return pushbuttons - Metal head version - Ø 4 mm straight fittings

Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
	Pushbutton Black	Spring	8,5 6,0	60 240	0,077 0,082	PXB-B3111BA2 PXB-B4131BA2
	Pushbutton Green	Spring	8,5 6,0	60 240	0,077 0,082	PXB-B3111BA3 PXB-B4131BA3
	Pushbutton Red	Spring	8,5 6,0	60 240	0,077 0,082	PXB-B3111BA4 PXB-B4131BA4
	Pushbutton Black	Spring	16,5 14,0	60 240	0,087 0,092	PXB-B3251BA2 PXB-B4231BA2

Mushroom head pushbuttons - Metal head version - Ø 4 mm straight fittings

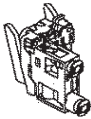
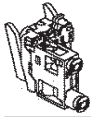
Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
	Pushbutton Ø40 mm Black	Spring	12 6,5	60 240	0,122 0,127	PXB-B3111BC2 PXB-B4131BC2
	Latching pushbutton Ø40 mm Red		48 42,5	60 240	0,125 0,127	PXB-B3111BT4 PXB-B4131BT4
	Latching pushbutton Ø40 mm Red		49 43,5	60 240	0,125 0,127	PXB-B3121BT4 PXB-B4131BT4

Selector switches - Metal head version - Ø 4 mm straight fittings

Symbol	Actuator	Return	Flow NI/min	Weight kg	Order code
		Latching selector button 2 positions, Black	60 240	0,092 0,097	PXB-B3111BD2 PXB-B4131BD2
		Latching selector button 2 positions, Black	60 240	0,102 0,107	PXB-B3211BD2 PXB-B4231BD2
		Latching selector button 2 positions, Black	60 240	0,102 0,107	PXB-B3251BD2 PXB-B4231BD2
		Latching selector button 3 positions, Black	60 240	0,102 0,107	PXB-B3211BD3 PXB-B4231BD3
		Latching selector button 3 positions, Black	60 240	0,102 0,107	PXB-B3251BD3 PXB-B4231BD3
		Non latching selector button with long handle 3 positions, Black	Spring 60 240	0,103 0,108	PXB-B3211BJ5 PXB-B4231BJ5

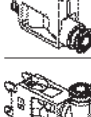
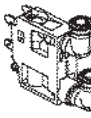
Switch bodies with operating metal head mounting - Ø 4 mm straight fittings

For use with ZB4 operating heads

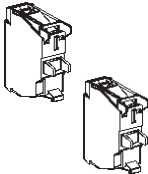
Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
		Spring	7	60	0,048	PXB-B3111B
			4,5	240	0,053	PXB-B4131B
		Spring	8	60	0,048	PXB-B3121B
			4,5	240	0,053	PXB-B4131B

Additional switch valves - Ø 4 mm straight fittings

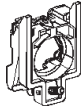
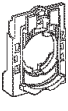
For use with ZB4 and ZB5 operating heads and mounting blocks

Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
		Spring	7	60	0,010	PXB-B3911
			4,5	240	0,015	PXB-B4931
		Spring	8	60	0,010	PXB-B3921
			4,5	240	0,015	PXB-B4931
		Spring	7	60	0,015	PXB-B3912
			4,5	240	0,021	PXB-B4932
		Spring	8	60	0,015	PXB-B3922
			4,5	240	0,021	PXB-B4932

Electrical contact blocks

Connections	Type of contact	Weight kg	Order code
	Normally open (NO) 	0,011	ZBE-101
	Normally closed (NC) 	0,011	ZBE-102

Mounting block for valves and operating heads

	Description	For Metal head ZB4		For Plastic head ZB5	
		Weight kg	Order code	Weight kg	Order code
 	Mounting block for valves and operating heads: to make up a complete push button with one operating head and switch valves.	0,038	ZB4-BZ009	0,006	ZB5-AZ009

Operating heads

For use with PXB-B3. and PXB-B4. switch bodies

Spring return pushbuttons

	Description	Colour	Metal head		Plastic Head	
			Weight kg	Order code	Weight kg	Order code
	Flush	Black	0,029	ZB4-BA2	0,018	ZB5-AA2
		Green	0,029	ZB4-BA3	0,018	ZB5-AA3
		Red	0,029	ZB4-BA4	0,018	ZB5-AA4
		6 color caps	0,029	ZB4-BA9	0,018	ZB5-AA9
	Projecting	Black	0,030	ZB4-BL2	0,019	ZB5-AL2
		Green	0,030	ZB4-BL3	0,019	ZB5-AL3
		Red	0,030	ZB4-BL4	0,019	ZB5-AL4
	Flush booted	Black	0,034	ZB4-BP2		

Push/push pushbuttons

	Description	Colour	Metal head	
			Weight kg	Order code
	Flush	Black	0,029	ZB4-BH02
		Green	0,029	ZB4-BH03
		Red	0,029	ZB4-BH04

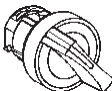
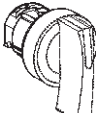
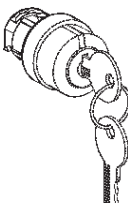
Double headed spring return pushbuttons

	Description	Colour Marking	Metal head	
			Weight kg	Order code
	Flush	Green/Red I/O	0,047	ZB4-BA7341

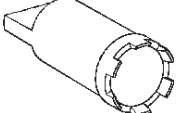
Mushroom head pushbuttons

	Description	Function	Colour	Metal head		Plastic Head	
				Weight kg	Order code	Weight kg	Order code
	Ø40 mm	Spring return	Black	0,074	ZB4-BC2		
	Mushroom head		Green	0,074	ZB4-BC3		
			Red	0,074	ZB4-BC4		
		Latching push-pull	Red	0,077	ZB4-BT4		
	Ø60 mm	Spring return	Black	0,093	ZB4-BR2		
	Mushroom head						
	Ø40 mm	Latching	Red	0,070	ZB4-BS54	0,044	ZB5-AS54
	Mushroom head	Turn to release Release by Ronis key N°455	Red	0,070	ZB4-BS14		

Selector switches

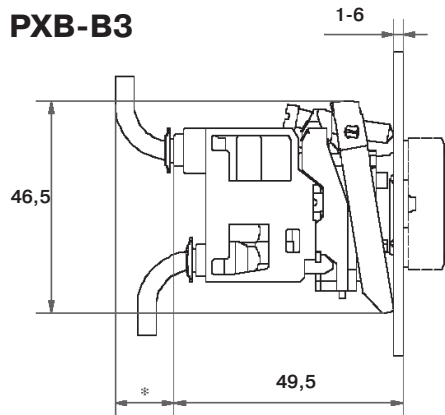
	Description	Function	Metal head		Plastic Head	
			Weight kg	Order code	Weight kg	Order code
	Standard, black handle	2 positions Stay put	0,044	ZB4-BD2	0,024	ZB5-AD2
		3 positions Stay put	0,044	ZB4-BD3	0,024	ZB5-AD3
		3 spring return to centre	0,044	ZB4-BD5	0,024	ZB5-AD5
	Long black handle	2 positions Stay put	0,045	ZB4-BJ2		
		3 positions Stay put	0,045	ZB4-BJ3		
		Spring return to centre	0,045	ZB4-BJ5		
		1 spring return from left to centre	0,045	ZB4-BJ7		
	Description	Function	Key with drawal	Weight kg	Order code	
	Key operated (Ronis key N° 455)	2 stay put positions	Left	0,069	ZB4-BG2	
			Left and right	0,069	ZB4-BG4	

Tools

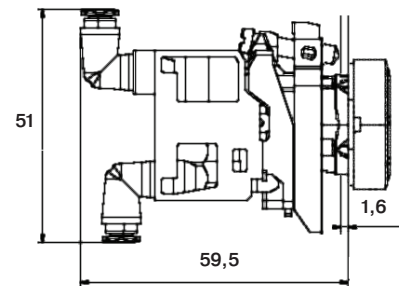
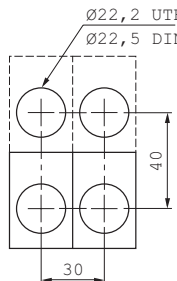
	Description	Weight kg	Order code
	ZB5 head nut tool	0,160	ZB5-AZ905

Dimensions

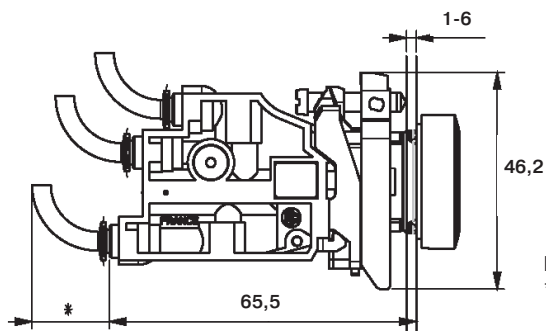
PXB-B3



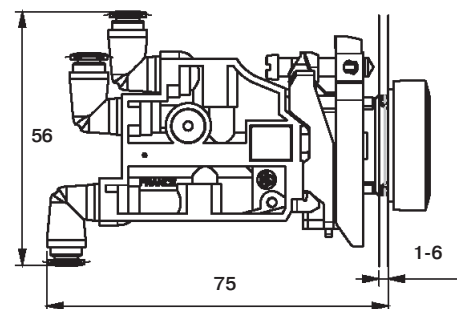
Body width 30 mm
* With 2 x 4 mm tube = 10
With 2,7 x 4 mm tube = 15



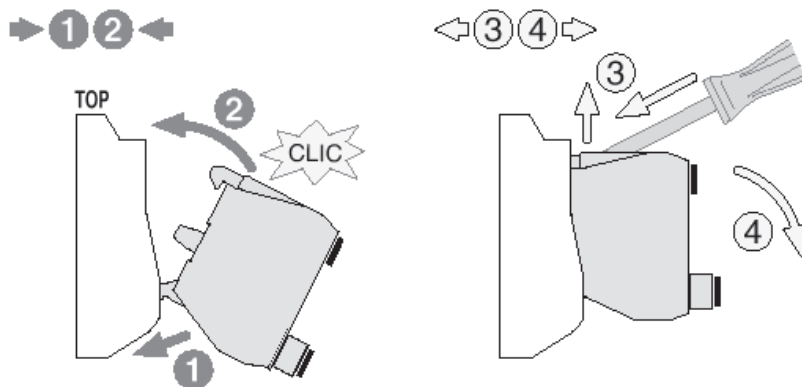
PXB-B4



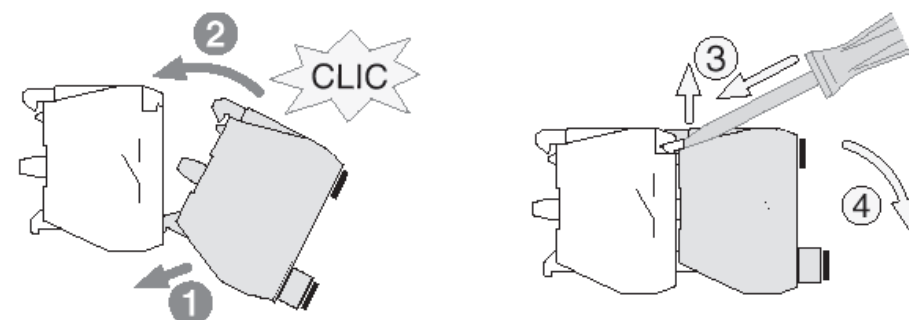
Body width 30 mm
* With 2 x 4 mm tube = 10
With 2,7 x 4 mm tube = 15



Assembling of PXB-B3. and PXB-B4. valves on mounting block



Assembling of PXB-B3. and PXB-B4. valves on the back of the electrical contact



- Lightning fast response
- Simple long life mechanism
- Very high contrast
- All around visibility
- One single pipe connection
- Effective aid to diagnostics



Operating information

Working pressure 1-8 bar
Working temperature -15 °C to +60 °C

Options and additional information

Connections Ø4 mm straight Push-in
 as standard

Order key

PXV-F1213-EX

	Ø
F1	22 mm
M1	30 mm

	Colour, actuated
1	White
2	Black
3	Green
4	Red
5	Yellow
6	Blue

	Connection
1	Ø4 mm Push-in
5	M5

	Colour, unactuated
1	White
2	Black
3	Green
4	Red
5	Yellow
6	Blue

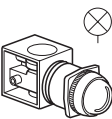
ATEX
Version
*

*

See :
PDE2584TCUK-ev

Ø22 mm Visual Indicators

Black plastic bezel
In the actuated mode

Symbol	Colour *	Weight kg	Order code
	Green	0,080	PXV-F131
	Red	0,080	PXV-F141
	Yellow	0,080	PXV-F151
	Blue	0,080	PXV-F161
	White	0,080	PXV-F111

Ø22 mm Visual Indicators

Black plastic bezel
In the unactuated mode

Symbol	Colour *	Weight kg	Order code
	Green	0,080	PXV-F1213
	Red	0,080	PXV-F1214
	Yellow	0,080	PXV-F1215
	Blue	0,080	PXV-F1216
	White	0,080	PXV-F1211

* The pneumatic indicators are black in one position and coloured in the other.
The coloured position corresponds either to the presence of pressure (actuated mode) or the absence of pressure (unactuated mode). For two different colours on the same indicator, please consult Technical Sales Department.

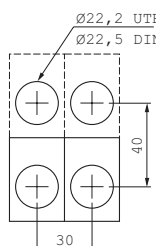
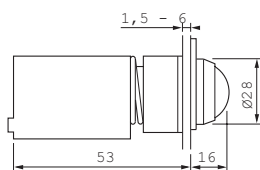
** Visual indicators Ø 30 mm on request.

Dimensions

Ø22 mm visual indicators

PXV-F1 • •

Minimum distance between centres



- Ergonomical design
- Robust polymer enclosure
- Meet requirements for protection against accidental operation and tampering
- Conforms to NF EN574 and NF EN ISO 13849-1/2 requirements

These units are indispensable for ensuring that both operator's hands are occupied for reasons of safety. Both push-buttons must be operated simultaneously to produce an output signal.



Specification

Material

Valve body	High grade polymer
Seals	Nitrile, NBR
Enclosure	High grade polymer

Operating information

Working pressure	3-8 bar
Working temperature	-5 °C to +60 °C
Air quality	Air or inert gas, filtered ≤5μ (according to ISO 8573-1: 2010 Class 3:4:3) - lubricated
Simultaneity	>0.12s <0.5s

European standard definition

Extract : two-hand control device
A device which requires at least simultaneous actuation by use of both hands in order to initiate and to maintain, whilst a hazardous condition exists, any operation of a machine thus affording a measure of protection only for the person who actuates.

Conformity to standard

Conformity to Machinery Directive n° 2006/42/EC
EC type examination certificate issued by INERIS - Parc Technologique ALATA - F-60550 Verneuil en Halatte
Notified body with identification no. 0080

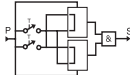
Description	Function	Order code	CE Type examination Certificate	Level of Compliance	
				NF EN 574	NF EN ISO 13849-1
Control module	Logic unit	PXP-A11-A	0080.5130.520.12.17.0066	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Single control	PXP-C111-A	0080.5130.520.12.17.0067	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Dual control	PXP-D121-A	0080.5130.520.12.17.0069	III B	Cat 1 PLc

Control module only

	Symbol	Connections	Weight kg	Order code
		Ø4 mm Push-in	0,250	PXP-A11-A

Complete units

Polyester enclosure, with two mushrooms head pushbuttons and control module(s)

	Symbol	Connections	Number of control modules	Weight kg	Order code
		Ø4 mm Push-in	1	1,000	PXP-C111-A
		Ø4 mm Push-in	2	1,000	PXP-D121-A

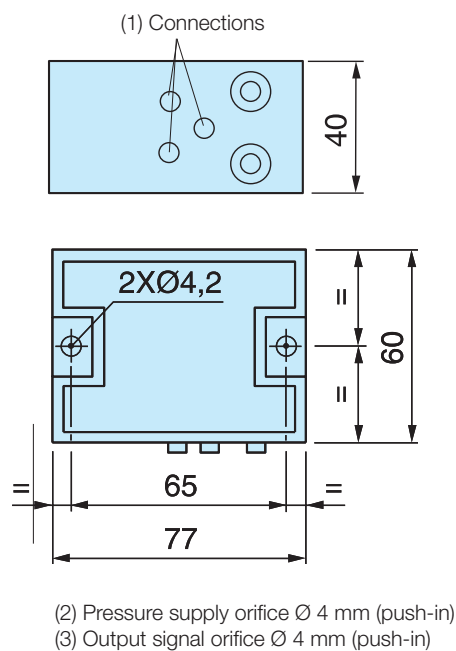
Spare parts for two-hand control units

Description	Base component	Weight kg	Order code
1 guard for two-hand control	PXP-C111-A PXP-D121-A	0,050	PPR-L15

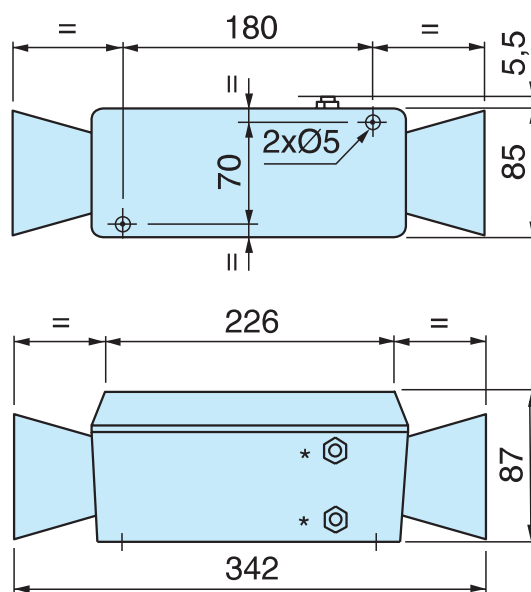
Dimensions, two-hand control unit, PXP Series

All dimensions in mm unless otherwise stated

PXP-A11-A



PXP-C111-A and PXP-D121-A



www.parker.com



European Headquarters
La Tuilière 6, 1163 Etoy,
Switzerland
Tel: +41 21 821 85 00

Your authorized Distributor