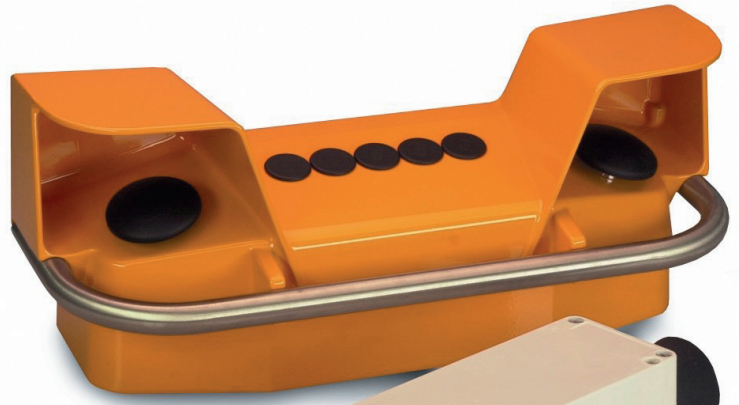
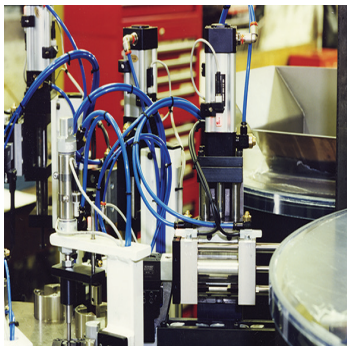


aerospace  
 climate control  
 electromechanical  
 filtration  
 fluid & gas handling  
 hydraulics  
**pneumatics**  
 process control  
 sealing & shielding



# Man/Machine Dialogue

Push-buttons, two-hand control units

PDE2627TCUK



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**

Generalities .....	4
Spring return pushbuttons.....	4
Mushroom head pushbuttons.....	4
Selector switches .....	5
Switch bodies with operating head mounting .....	5
Additional switch valves.....	5
Electrical contact blocks.....	5
Mounting block for valves and operating heads .....	6
Operating heads.....	6 - 7
Joystick controllers.....	7
Dimensions and assembling .....	8

**Visual indicators**

Generalities .....	9
References and dimensions.....	10

**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

Connections

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

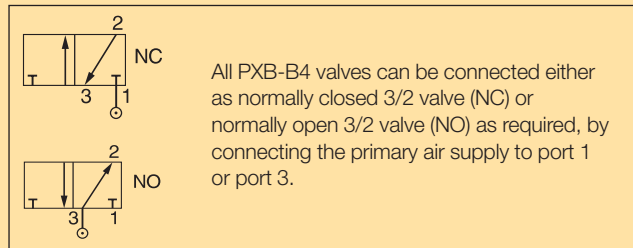
Working temperature -15 °C to +60 °C

**Flow**

(acc. to ISO 6358)

**PXB-B3••** Q<sub>max</sub>=60 NI/min  
 Q<sub>n</sub> = 30 NI/min

**PXB-B4••** Q<sub>max</sub>=240 NI/min  
 Q<sub>n</sub> = 120 NI/min



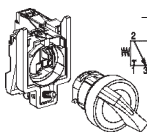

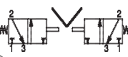

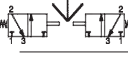
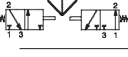
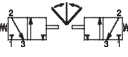
**Spring return pushbuttons - Metal head version - Ø 4 mm straight fittings**

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	<b>PXB-B3111BA2</b> <b>PXB-B4131BA2</b>
	Pushbutton Green	Spring	8,5 6,0	60 240	0,077 0,082	<b>PXB-B3111BA3</b> <b>PXB-B4131BA3</b>
	Pushbutton Red	Spring	8,5 6,0	60 240	0,077 0,082	<b>PXB-B3111BA4</b> <b>PXB-B4131BA4</b>
	Pushbutton Black	Spring	16,5 14,0	60 240	0,087 0,092	<b>PXB-B3251BA2</b> <b>PXB-B4231BA2</b>

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

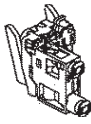



Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
	Pushbutton Ø40 mm Black	Spring	12 6,5	60 240	0,122 0,127	<b>PXB-B3111BC2</b> <b>PXB-B4131BC2</b>
	Latching pushbutton Ø40 mm Red		48 42,5	60 240	0,125 0,127	<b>PXB-B3111BT4</b> <b>PXB-B4131BT4</b>
	Latching pushbutton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

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

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

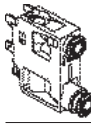

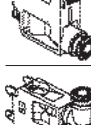

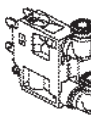



**Switch bodies with operating metal head mounting - Ø 4 mm straight fittings**

For use with ZB4 operating heads

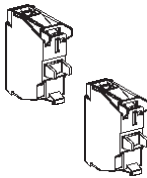
Symbol	Actuator	Return	Operating force at 6 bar, N	Flow Nl/min	Weight kg	Order code
		Spring	7	60	0,048	<b>PXB-B3111B</b>
			4,5	240	0,053	<b>PXB-B4131B</b>
		Spring	8	60	0,048	<b>PXB-B3121B</b>
			4,5	240	0,053	<b>PXB-B4131B</b>

**Additional switch valves - Ø 4 mm straight fittings**

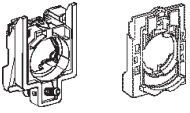
For use with ZB4 and ZB5 operating heads and mounting blocks

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

**Electrical contact blocks**

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




**Mounting block for valves and operating heads**

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


**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
 <p>Flush</p>	Black	0,029	<b>ZB4-BA2</b>	0,018	<b>ZB5-AA2</b>
	Green	0,029	<b>ZB4-BA3</b>	0,018	<b>ZB5-AA3</b>
	Red	0,029	<b>ZB4-BA4</b>	0,018	<b>ZB5-AA4</b>
	6 color caps	0,029	<b>ZB4-BA9</b>	0,018	<b>ZB5-AA9</b>
 <p>Projecting</p>	Black	0,030	<b>ZB4-BL2</b>	0,019	<b>ZB5-AL2</b>
	Green	0,030	<b>ZB4-BL3</b>	0,019	<b>ZB5-AL3</b>
	Red	0,030	<b>ZB4-BL4</b>	0,019	<b>ZB5-AL4</b>
 <p>Flush booted</p>	Black	0,034	<b>ZB4-BP2</b>		




**Push/push pushbuttons**

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

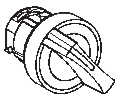
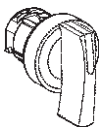
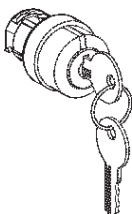
**Double headed spring return pushbuttons**

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

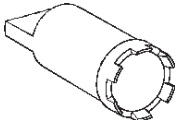
**Mushroom head pushbuttons**

Description	Function	Colour	Metal head		Plastic Head	
			Weight kg	Order code	Weight kg	Order code
 <p>Ø40 mm Mushroom head</p>	Spring return	Black	0,074	<b>ZB4-BC2</b>		
		Green	0,074	<b>ZB4-BC3</b>		
		Red	0,074	<b>ZB4-BC4</b>		
	Latching push-pull	Red	0,077	<b>ZB4-BT84</b>		
 <p>Ø60 mm Mushroom head</p>	Spring return	Black	0,093	<b>ZB4-BR2</b>		
 <p>Ø40 mm Mushroom head</p>	Latching Turn to release	Red	0,070	<b>ZB4-BS54</b>	0,044	<b>ZB5-AS54</b>
	Latching Release by Ronis key N°455	Red	0,070	<b>ZB4-BS14</b>		

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

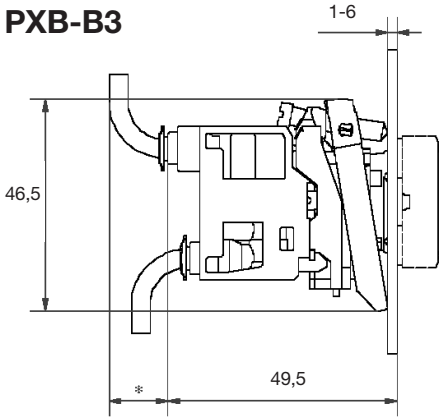
## Tools

	Description	Weight kg	Order code
	ZB5 head nut tool	0,160	<b>ZB5-AZ905</b>

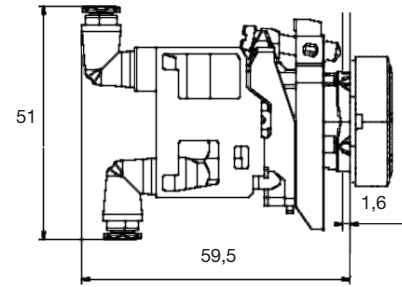
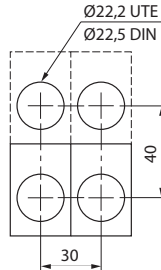


Dimensions

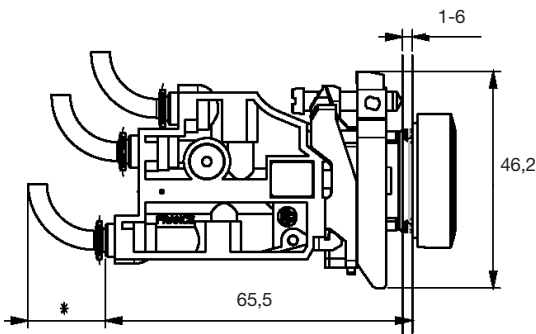
PXB-B3



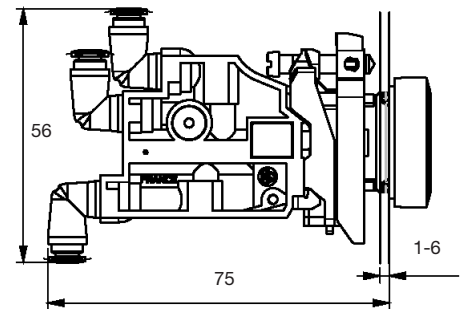
Body width 30 mm  
 \* With 2 x 4 mm tube = 10  
 With 2,7 x 4 mm tube = 15



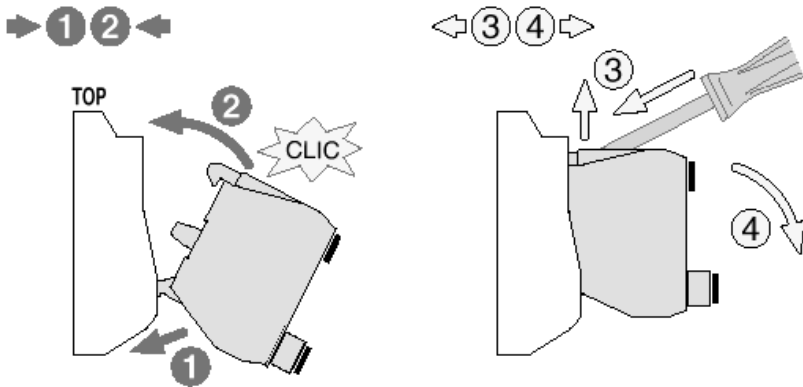
PXB-B4



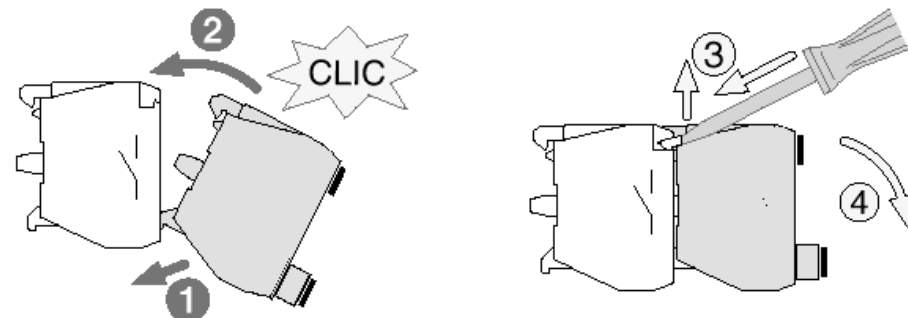
Body width 30 mm  
 \* With 2 x 4 mm tube = 10  
 With 2,7 x 4 mm tube = 15



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

**P X V - F 1 2 1 3 - E X**

	Ø
<b>F1</b>	22 mm
<b>M1</b>	30 mm

	Colour, actuated
<b>1</b>	White
<b>2</b>	Black
<b>3</b>	Green
<b>4</b>	Red
<b>5</b>	Yellow
<b>6</b>	Blue

	Connection
<b>1</b>	Ø4 mm Push-in
<b>5</b>	M5


	Colour, unactuated
<b>1</b>	White
<b>2</b>	Black
<b>3</b>	Green
<b>4</b>	Red
<b>5</b>	Yellow
<b>6</b>	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	<b>PXV-F131</b>
	Red	0,080	<b>PXV-F141</b>
	Yellow	0,080	<b>PXV-F151</b>
	Blue	0,080	<b>PXV-F161</b>
	White	0,080	<b>PXV-F111</b>

## Ø22 mm Visual Indicators

Black plastic bezel  
In the unactuated mode

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

\* 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.

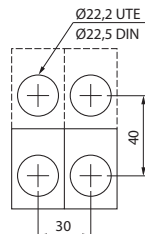
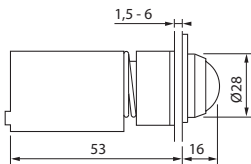
\*\* Visual indicators Ø 30 mm on request.

## Dimensions

### Ø22 mm visual indicators

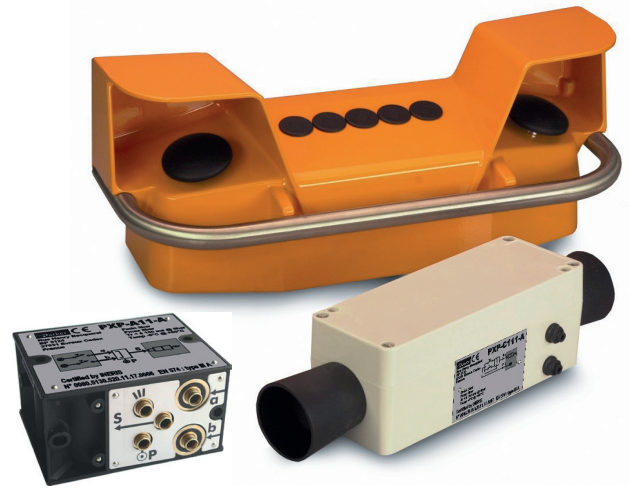
PXV-F1••

Minimum distance between centres



- Ergonomic design
- Robust polymer or metal enclosure
- Meets requirements for protection against accidental operation and tampering
- Metal enclosure features a wrist-rest bar which helps prevent illness due to repetitive actions
- Conforms to NF EN574 and NF EN ISO13849-1/2 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 or metal

### Operating information

Working pressure	3-8 bar
Working temperature	0°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



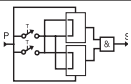
Description	Function	Order code	CE Type examination Certificate	Level of Compliance	
				NF EN 574	NF EN ISO 13849-1
Control module	Logic unit	PXP-A11-A	0080.5130.520.12.17.0066	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Single control	PXP-C111-A	0080.5130.520.12.17.0067	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Dual control	PXP-D121-A	0080.5130.520.12.17.0069	III B	Cat 1 PLc
Two-hand control device metal enclosure	Single control	PXP-S111-A	0080.5130.520.12.17.0068	III A	Cat 3 PLc
Two-hand control device metal enclosure	Dual control	PXP-S121-A	0080.5130.520.12.17.0070	III B	Cat 3 PLc

**Control module only**

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

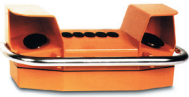

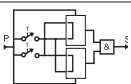
**Complete units**

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	<b>PXP-C111-A</b>
		Ø4 mm Push-in	2	1,000	<b>PXP-D121-A</b>

**Complete units**

Metal enclosure, with two Ø 60 push buttons with protective guards and control module(s)

	Symbol	Connections	Number of control modules	Weight kg	Order code
		Push-in Ø6 mm for supply Ø4 mm for output	1	4,200	<b>PXP-S111-A</b>
		Push-in Ø6 mm for supply Ø4 mm for output	2	4,400	<b>PXP-S121-A</b>

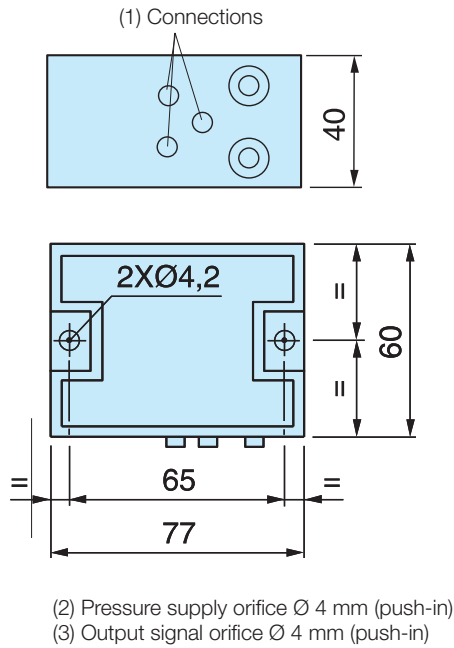
**Spare parts for two-hand control units**

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

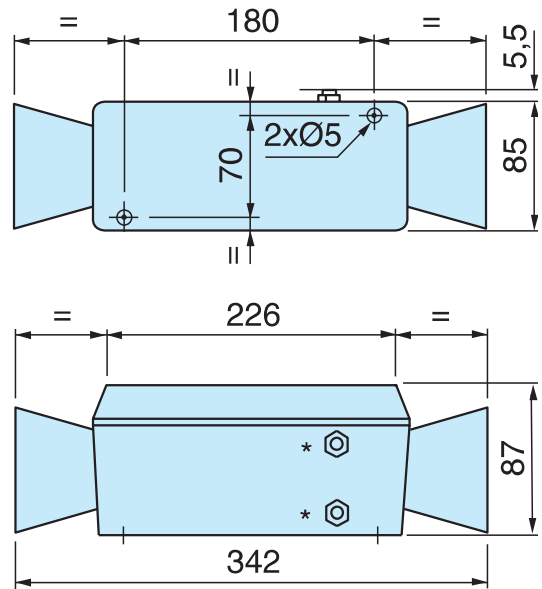
**Dimensions, two-hand control unit, PXP Series**

All dimensions in mm unless otherwise stated

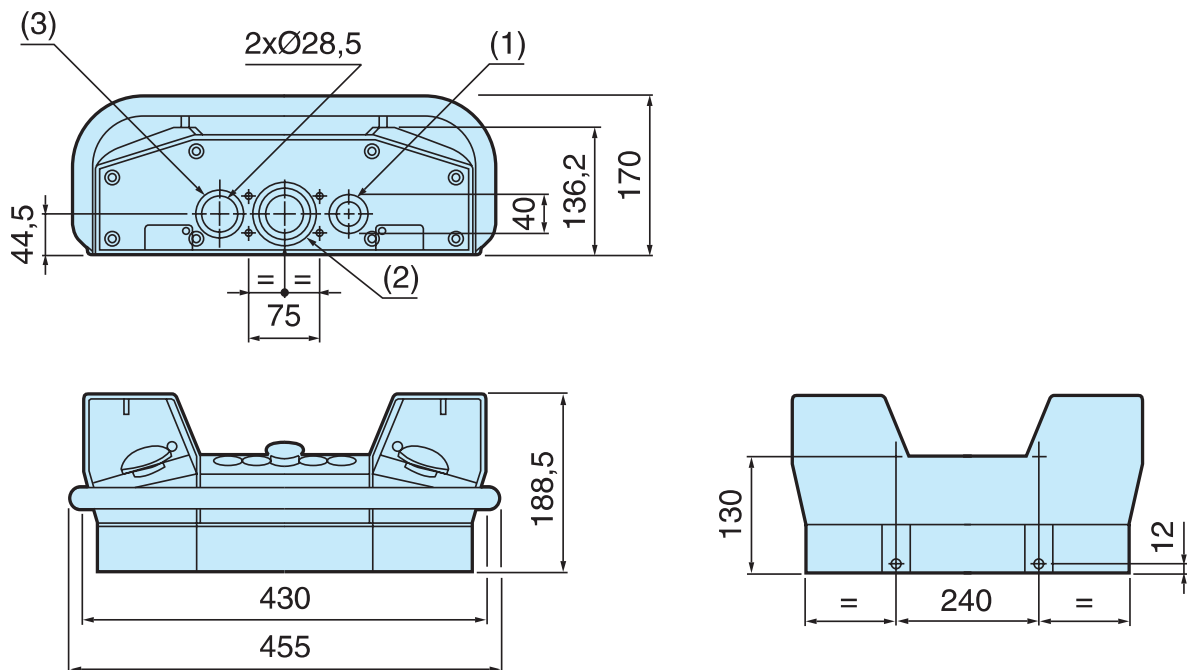
**PXP-A11-A**



**PXP-C111-A and PXP-D121-A**



**PXP-S111-A and PXP-S121-A**



- (1) 1 hole for cable gland PG13
- (2) Pressure supply orifice Ø 4 mm (push-in)
- (3) Output signal orifice Ø 4 mm (push-in)







# Parker Worldwide

## Europe, Middle East, Africa

**AE – United Arab Emirates,** Dubai  
Tel: +971 4 8127100  
parker.me@parker.com

**AT – Austria,** Wiener Neustadt  
Tel: +43 (0)2622 23501-0  
parker.austria@parker.com

**AT – Eastern Europe,** Wiener Neustadt  
Tel: +43 (0)2622 23501 900  
parker.easteurope@parker.com

**AZ – Azerbaijan,** Baku  
Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/LU – Belgium,** Nivelles  
Tel: +32 (0)67 280 900  
parker.belgium@parker.com

**BG – Bulgaria,** Sofia  
Tel: +359 2 980 1344  
parker.bulgaria@parker.com

**BY – Belarus,** Minsk  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**CH – Switzerland,** Etoy  
Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CZ – Czech Republic,** Klecany  
Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – Germany,** Kaarst  
Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – Denmark,** Ballerup  
Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – Spain,** Madrid  
Tel: +34 902 330 001  
parker.spain@parker.com

**FI – Finland,** Vantaa  
Tel: +358 (0)20 753 2500  
parker.finland@parker.com

**FR – France,** Contamine s/Arve  
Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – Greece,** Athens  
Tel: +30 210 933 6450  
parker.greece@parker.com

**HU – Hungary,** Budaörs  
Tel: +36 23 885 470  
parker.hungary@parker.com

**IE – Ireland,** Dublin  
Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IL – Israel**  
Tel: +39 02 45 19 21  
parker.israel@parker.com

**IT – Italy,** Corsico (MI)  
Tel: +39 02 45 19 21  
parker.italy@parker.com

**KZ – Kazakhstan,** Almaty  
Tel: +7 7273 561 000  
parker.easteurope@parker.com

**NL – The Netherlands,** Oldenzaal  
Tel: +31 (0)541 585 000  
parker.nl@parker.com

**NO – Norway,** Asker  
Tel: +47 66 75 34 00  
parker.norway@parker.com

**PL – Poland,** Warsaw  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**PT – Portugal**  
Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – Romania,** Bucharest  
Tel: +40 21 252 1382  
parker.romania@parker.com

**RU – Russia,** Moscow  
Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – Sweden,** Spånga  
Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

**SL – Slovenia,** Novo Mesto  
Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TR – Turkey,** Istanbul  
Tel: +90 216 4997081  
parker.turkey@parker.com

**UA – Ukraine,** Kiev  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**UK – United Kingdom,** Warwick  
Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**ZA – South Africa,** Kempton Park  
Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## North America

**CA – Canada,** Milton, Ontario  
Tel: +1 905 693 3000

**US – USA,** Cleveland  
Tel: +1 216 896 3000

## Asia Pacific

**AU – Australia,** Castle Hill  
Tel: +61 (0)2-9634 7777

**CN – China,** Shanghai  
Tel: +86 21 2899 5000

**HK – Hong Kong**  
Tel: +852 2428 8008

**IN – India,** Mumbai  
Tel: +91 22 6513 7081-85

**JP – Japan,** Tokyo  
Tel: +81 (0)3 6408 3901

**KR – South Korea,** Seoul  
Tel: +82 2 559 0400

**MY – Malaysia,** Shah Alam  
Tel: +60 3 7849 0800

**NZ – New Zealand,** Mt Wellington  
Tel: +64 9 574 1744

**SG – Singapore**  
Tel: +65 6887 6300

**TH – Thailand,** Bangkok  
Tel: +662 186 7000

**TW – Taiwan,** Taipei  
Tel: +886 2 2298 8987

## South America

**AR – Argentina,** Buenos Aires  
Tel: +54 3327 44 4129

**BR – Brazil,** Sao Jose dos Campos  
Tel: +55 800 727 5374

**CL – Chile,** Santiago  
Tel: +56 2 623 1216

**MX – Mexico,** Toluca  
Tel: +52 72 2275 4200

European Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

