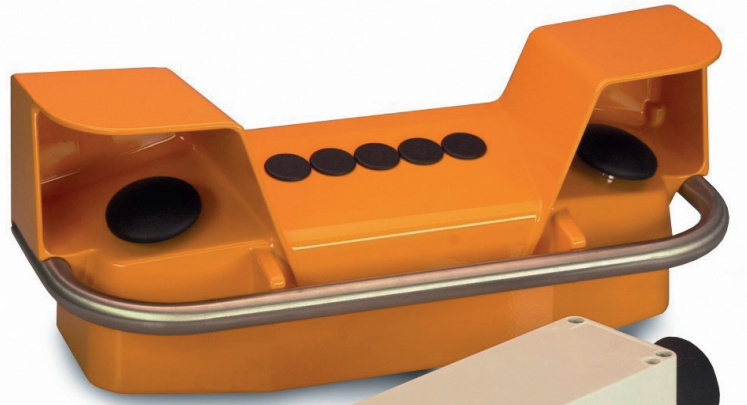
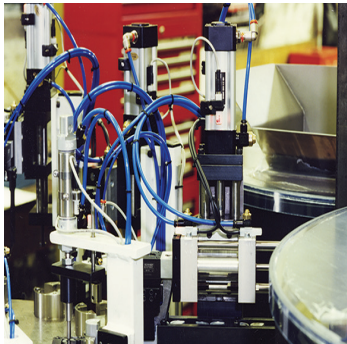


aerospace
 climate control
 electromechanical
 filtration
 fluid & gas handling
 hydraulics
pneumatics
 process control
 sealing & shielding



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••

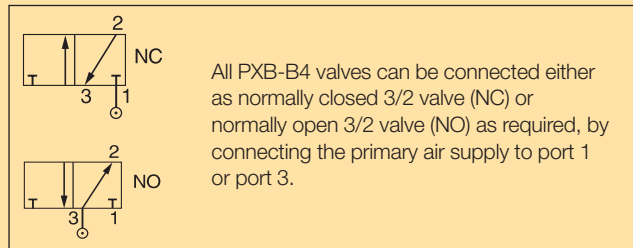
Q_{max}=60 NI/min

Q_n = 30 NI/min

PXB-B4••

Q_{max}=240 NI/min

Q_n = 120 NI/min



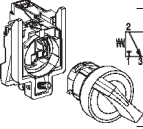

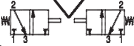
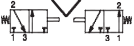
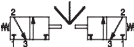
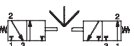

Spring return pushbuttons - Metal head version - Ø 4 mm straight fittings

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	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

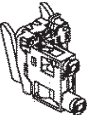



Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight kg	Order code
	Pushbutton Ø40 mm Black	Spring	12 6,5	60 240	0,122 0,127	PXB-B3111BC2 PXB-B4131BC2
	Latching pushbutton Ø40 mm Red		48 42,5	60 240	0,125 0,127	PXB-B3111BT4 PXB-B4131BT4
	Latching pushbutton Ø40 mm Red		49 43,5	60 240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

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

Symbol	Actuator	Return	Flow Nl/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



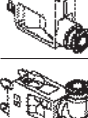





Switch bodies with operating metal head mounting - Ø 4 mm straight fittings

For use with ZB4 operating heads

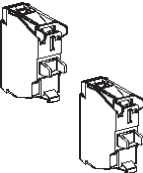
Symbol	Actuator	Return	Operating force at 6 bar, N	Flow Nl/min	Weight kg	Order code
		Spring	7	60	0,048	PXB-B3111B
			4,5	240	0,053	PXB-B4131B
		Spring	8	60	0,048	PXB-B3121B
			4,5	240	0,053	PXB-B4131B

Additional switch valves - Ø 4 mm straight fittings

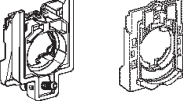
For use with ZB4 and ZB5 operating heads and mounting blocks

Symbol	Actuator	Return	Operating force at 6 bar, N	Flow Nl/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
 <p>Mounting block for valves and operating heads:</p> <p>to make up a complete push button with one operating head and switch valves.</p>	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
 <p>Flush</p>	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
 <p>Projecting</p>	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
 <p>Flush booted</p>	Black	0,034	ZB4-BP2		




Push/push pushbuttons

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

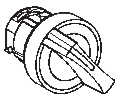
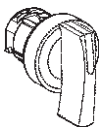
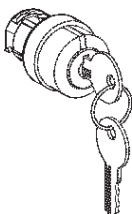
Double headed spring return pushbuttons

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

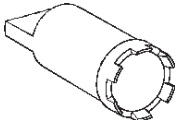
Mushroom head pushbuttons

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

Selector switches

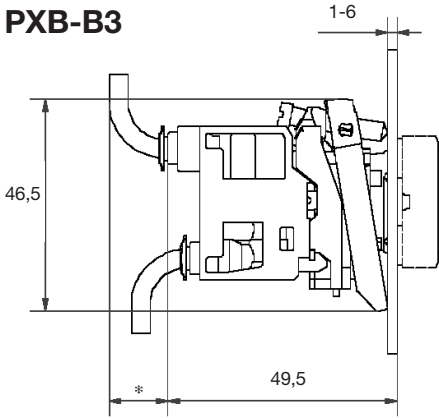
	Description	Function	Metal head		Plastic Head				
			Weight kg	Order code	Weight kg	Order code			
	Standard, black handle	2 positions	Stay put	0,044	ZB4-BD2	ZB5-AD2			
		3 positions	Stay put	0,044	ZB4-BD3	ZB5-AD3			
		3 spring return to centre		0,044	ZB4-BD5	ZB5-AD5			
	Long black handle	2 positions	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	2 stay put	Left	0,069	ZB4-BG2
					(Ronis key N° 455)	positions	Left and right	0,069	ZB4-BG4

Tools

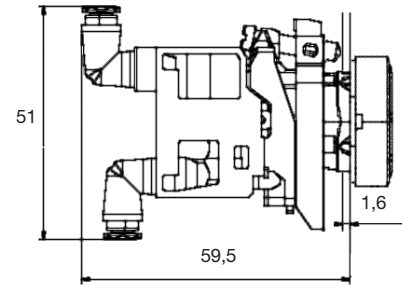
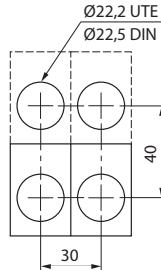
	Description	Weight kg	Order code
	ZB5 head nut tool	0,160	ZB5-AZ905

Dimensions

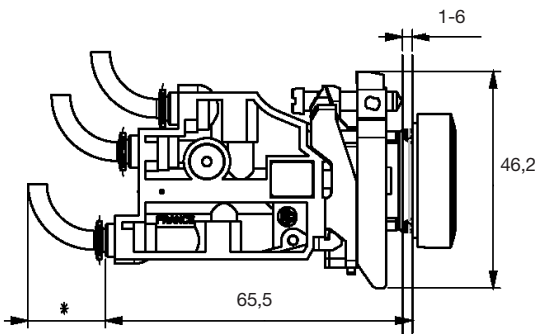
PXB-B3



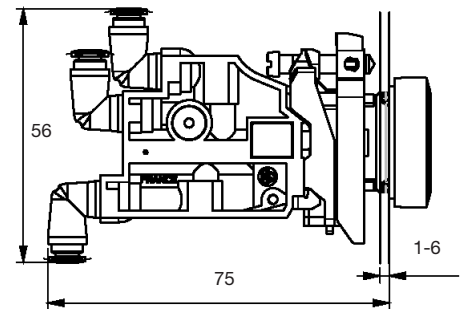
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



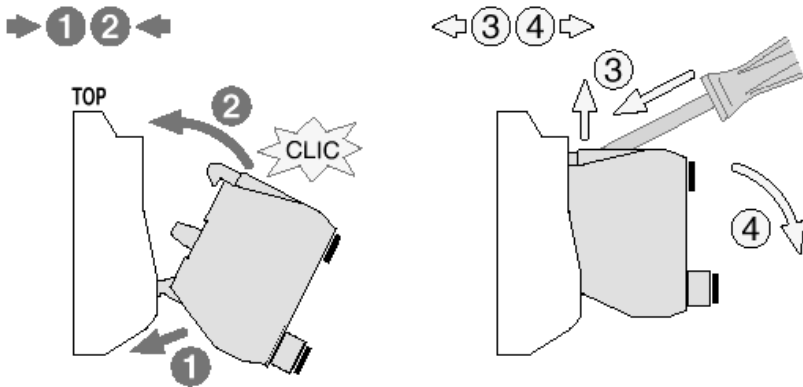
PXB-B4



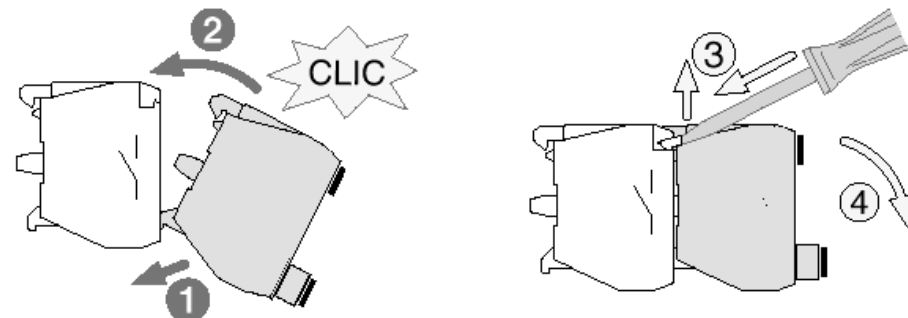
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



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

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

	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.

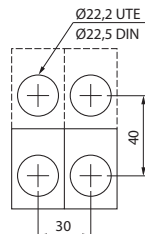
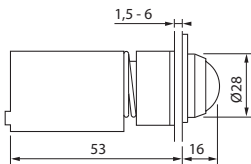
** Visual indicators Ø 30 mm on request.

Dimensions

Ø22 mm visual indicators

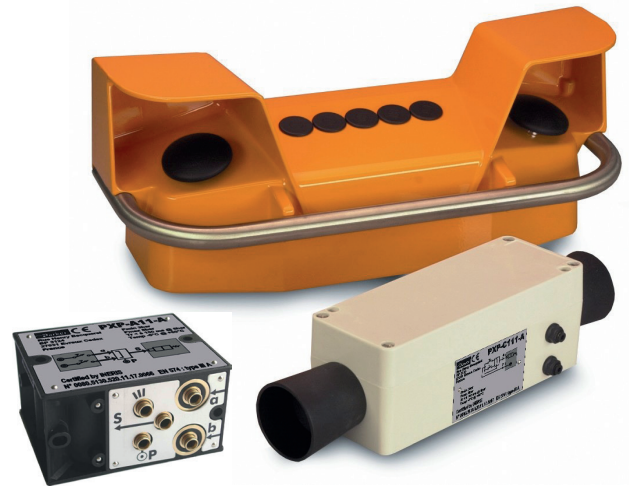
PXV-F1••

Minimum distance between centres



- 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



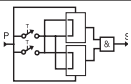
Description	Function	Order code	CE Type examination Certificate	Level of Compliance	
				NF EN 574	NF EN ISO 13849-1
Control module	Logic unit	PXP-A11-A	0080.5130.520.12.17.0066	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Single control	PXP-C111-A	0080.5130.520.12.17.0067	III A	Cat 1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

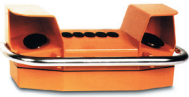

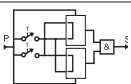
Complete units

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

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	PXP-S111-A
		Push-in Ø6 mm for supply Ø4 mm for output	2	4,400	PXP-S121-A

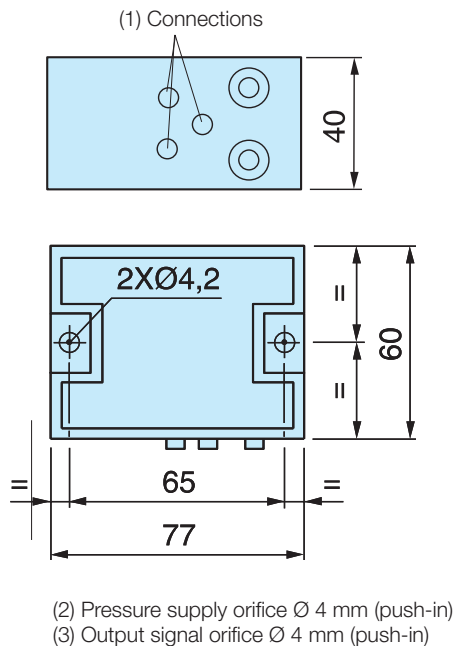
Spare parts for two-hand control units

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

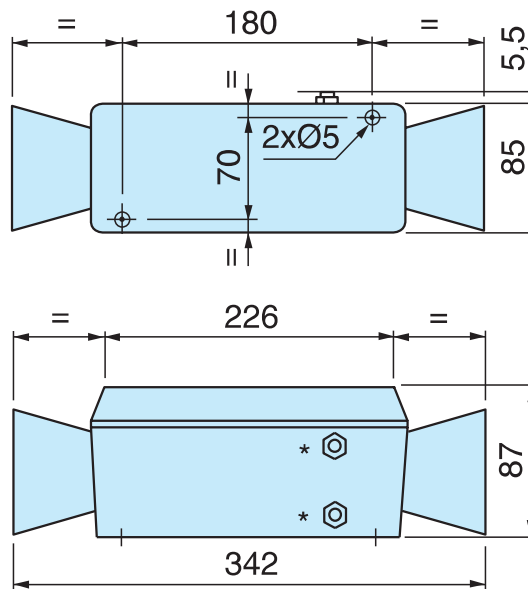
Dimensions, two-hand control unit, PXP Series

All dimensions in mm unless otherwise stated

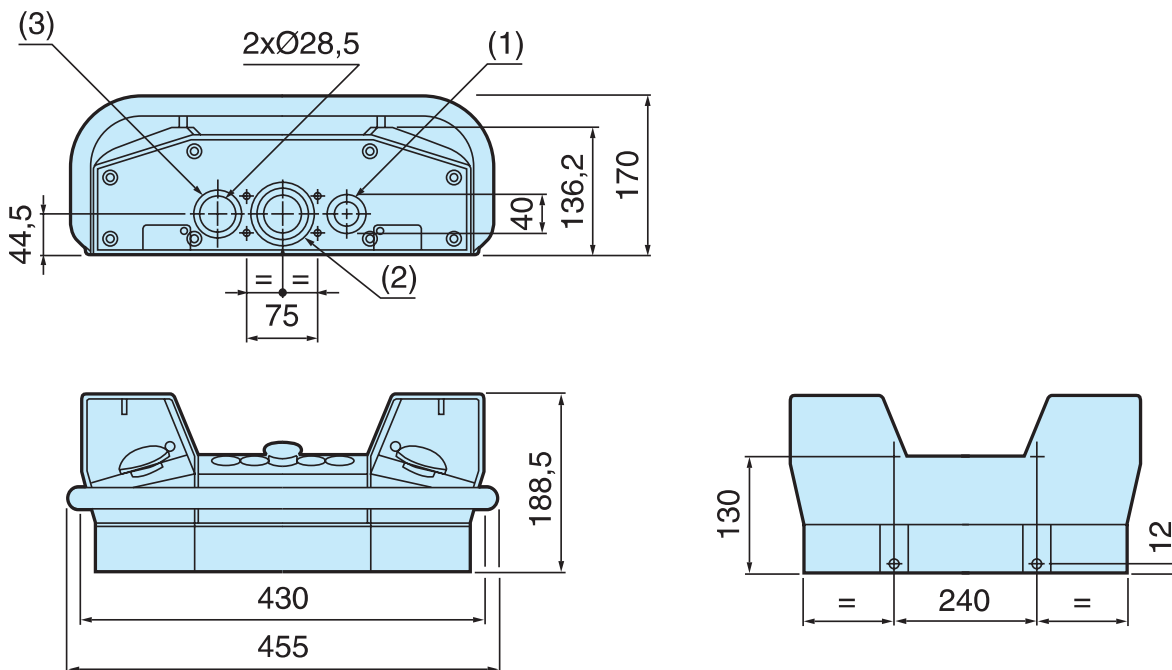
PXP-A11-A



PXP-C111-A and PXP-D121-A



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)

