



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



Man/Machine Dialogue

Push-buttons, Two-hand control units

PDE2627TCUK March 2010



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.

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Two-hand control units

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- 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

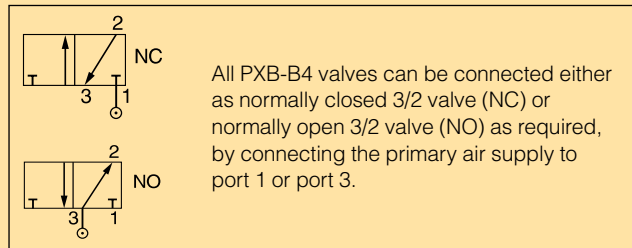
Working temperature -15 °C to +60 °C

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	60	0,077	PXB-B3111BA2
			6,0	240	0,082	PXB-B4131BA2
	Pushbutton Green	Spring	8,5	60	0,077	PXB-B3111BA3
			6,0	240	0,082	PXB-B4131BA3
	Pushbutton Red	Spring	8,5	60	0,077	PXB-B3111BA4
			6,0	240	0,082	PXB-B4131BA4
	Pushbutton Black	Spring	16,5	60	0,087	PXB-B3251BA2
			14,0	240	0,092	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	60	0,122	PXB-B3111BC2
			6,5	240	0,127	PXB-B4131BC2
	Latching pushbutton Ø40 mm Red		48	60	0,125	PXB-B3111BT4
			42,5	240	0,127	PXB-B4131BT4
	Latching pushbutton Ø40 mm Red		49	60	0,125	PXB-B3121BT4
			43,5	240	0,127	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

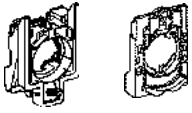
For use with ZB4 and ZB5 operating heads and mounting blocks

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: 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


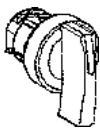
Double headed spring return pushbuttons


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

Mushroom head pushbuttons

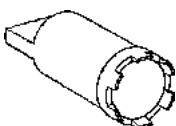
Description	Function	Colour	Metal head		Plastic Head	
			Weight kg	Order code	Weight kg	Order code
 <p>Ø40 mm Mushroom head</p>	Spring return	Black	0,074	ZB4-BC2		
		Green	0,074	ZB4-BC3		
		Red	0,074	ZB4-BC4		
	Latching push-pull	Red	0,077	ZB4-BT4		
 <p>Ø60 mm Mushroom head</p>	Spring return	Black	0,093	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	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		

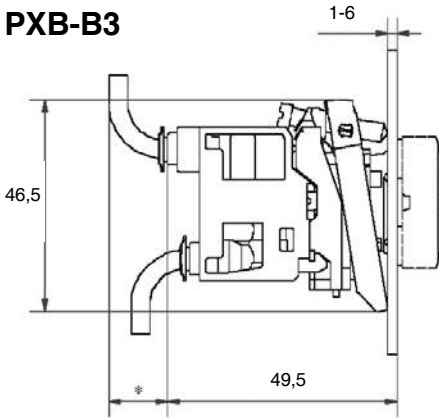
	Description	Function	Key with drawal	Weight kg	Order code
	Key operated (Ronis key N° 455)	2 stay put	Left	0,069	ZB4-BG2
		positions	Left and right	0,069	ZB4-BG4

Tools

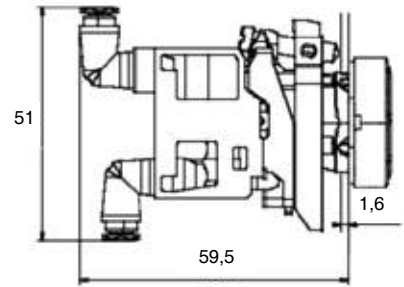
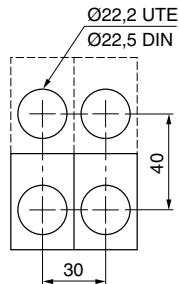
	Description	Weight kg	Order code
	ZB5 head nut tool	0,160	ZB5-AZ905

Dimensions

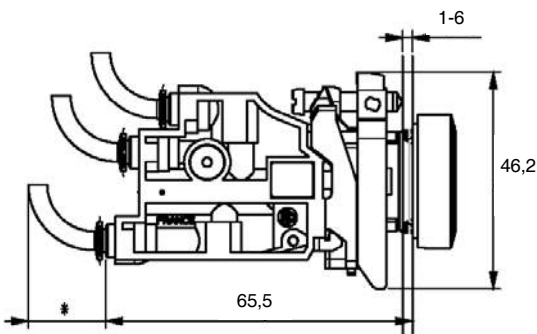
PXB-B3



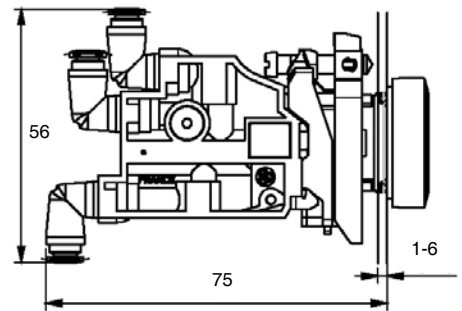
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



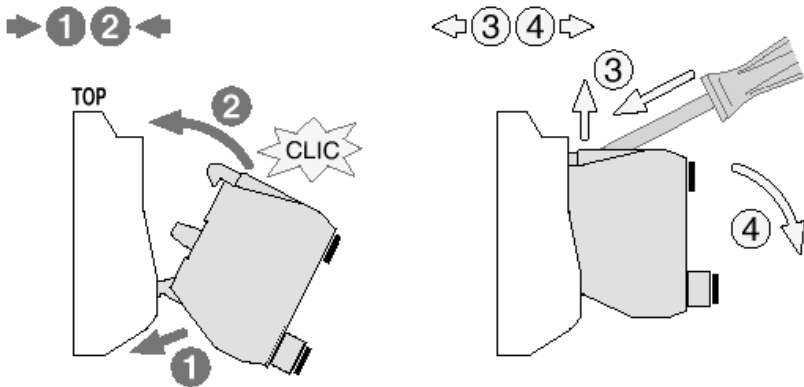
PXB-B4



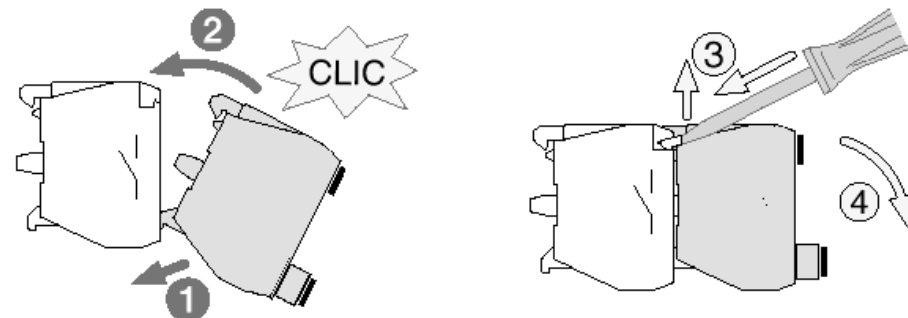
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



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

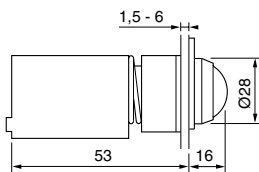
Symbol	Colour *	Weight kg	Order code
	Green	0,080	PXV-F1213
	Red	0,080	PXV-F1214
	Yellow	0,080	PXV-F1215
	Blue	0,080	PXV-F1216
	White	0,080	PXV-F1211

* 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.

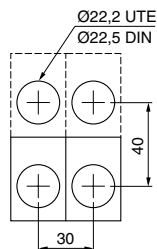
** Visual indicators Ø 30 mm on request.

Dimensions

Ø22 mm visual indicators PXV-F1••



Minimum distance between centres



- Ergonomical design
- Easy to install
- Robust enclosure and rigid guards
- Meet requirements for protection against accidental operation and tempering
- Conforms to the EN574 and EN954-1 requirements



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	-5 °C to +60 °C

European standard definition

EN 292-1 safety of machinery part 1

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 the recommendation about health and security n° 89/392/CEE revised.

Ce Type examination Certificate

The two-hand control devices, here after, conform to models that have obtained CE Type test Certificate by the CETIM.

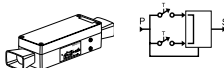
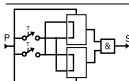
Description	Function	Order code	N°	CE Type examination Certificate			Cat
Control module	Logic unit	PXP-A11	N°	526	5136	520 02 10 2705	III A
Two-hand control device polyester enclosure	Single control	PXP-C111	N°	526	5136	520 02 10 2701	III A
Two-hand control device polyester enclosure	Dual control	PXP-D121	N°	526	5136	520 02 10 2702	III B
Two-hand control device metal enclosure	Single control	PXP-S111	N°	526	5136	520 02 10 2703	III A
Two-hand control device metal enclosure	Dual control	PXP-S121	N°	526	5136	520 02 10 2704	III B

Control module only

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

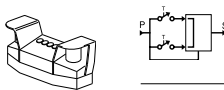
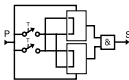
Complete units

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
	Ø4 mm Push-in	2 **	1,000	PXP-D121

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

Spare parts for two-hand control units

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

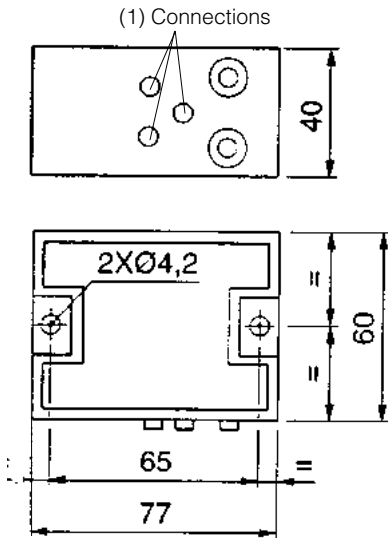
* These units are indispensable for ensuring that both operator's hands are occupied for reasons of safety. Both push-buttons must be operated simultaneously to produce an output signal.

** Conforming to french standard NFE 09-036 " Pneumatic synchronous two-hand controls".

Dimensions, two-hand control unit, PXP Series

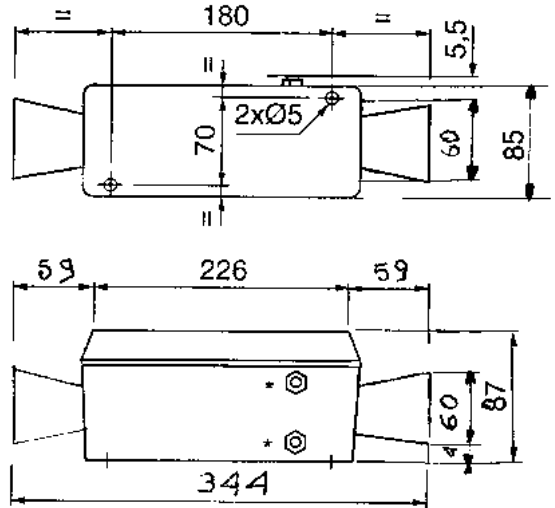
All dimensions in mm unless otherwise stated

PXP-A11

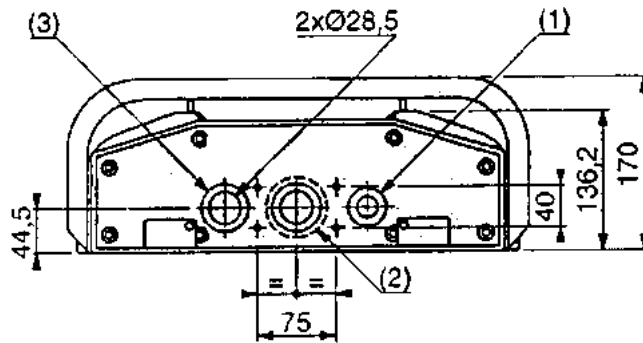


- (2) Pressure supply orifice Ø 4 mm (push-in)
- (3) Output signal orifice Ø 4 mm (push-in)

PXPC-111 and PXP-D121



PXP-S111 and PXP-S121



- (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)

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