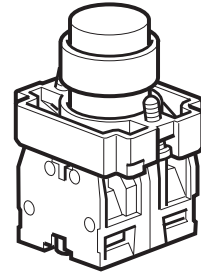


# Push Buttons and Limit Switches



- Facia mounted operator
- 3/2 NO or NC standard flow or high flow
- Pneumatic valves combinable with electrical switches
- Modular construction
- Wide range of actuators



## Operating and additional information

Working pressure; PXB-B1 ••	1 to 9 bar	Connections	Ø4 mm straight Push-in as standard Ø4 mm swivel Push-in on request
PXB-B2 ••	3 to 8 bar		Ø6 mm Push-in on request
Working temperature	-15 °C to +60 °C		M5 on request
<b>Flow PXB-B1••</b> (acc. to ISO 6358)	Q <sub>max</sub> =50 l/min		
<b>Flow PXB-B2••</b> (acc. to ISO 6358)	Q <sub>max</sub> =240 l/min	<b>Ø4 mm straight Push-in (other types on request)</b>	

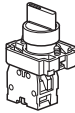


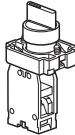





## Spring return pushbuttons

Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Push-button Black	13 13	50 240	0,090 0,090	<b>PXB-B1011BA2</b> <b>PXB-B2011BA2</b>	3 3
		Push-button Black	13 13	50 240	0,125 0,125	<b>PXB-B1121BA2</b> <b>PXB-B2121BA2</b>	3 3
		Push-button Green	13 13	50 240	0,090 0,090	<b>PXB-B1011BA3</b> <b>PXB-B2011BA3</b>	3 3
		Push-button Red	13 13	50 240	0,090 0,090	<b>PXB-B1011BA4</b> <b>PXB-B2011BA4</b>	3 3

## Mushroom head pushbuttons





Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Push-button Ø40 mm Black	13 18	50 240	0,105 0,105	<b>PXB-B1011BC2</b> <b>PXB-B2011BC2</b>	3 3
		Latching push-button Ø40 mm Red	50 50	50 240	0,135 0,135	<b>PXB-B1011BT4</b> <b>PXB-B2011BT4</b>	3 3
		Latching push-button Ø40 mm Red	5 da 50	50 240	0,135 0,135	<b>PXB-B1021BT4</b> <b>PXB-B2021BT4</b>	3 3

## Selector switches

	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Latching selector button		45	50	0,100	<b>PXB-B1011BD2</b>	3
		2 position, Black		45	240	0,100	<b>PXB-B2011BD2</b>	3
		Latching selector button		45	50	0,135	<b>PXB-B1111BD2</b>	3
		2 position, Black		45	240	0,135	<b>PXB-B2111BD2</b>	3
		Latching selector button		45	50	0,135	<b>PXB-B1121BD2</b>	3
		2 position, Black		45	240	0,135	<b>PXB-B2121BD2</b>	3
		Latching selector button		45	50	0,135	<b>PXB-B1111BD3</b>	3
		3 position, Black		45	240	0,135	<b>PXB-B2111BD3</b>	3
		Latching selector button		45	50	0,135	<b>PXB-B1121BD3</b>	3
		3 position, Black		45	240	0,135	<b>PXB-B2121BD3</b>	3
	Non latching selector button with long handle	Spring	13	50	0,140	<b>PXB-B1111BJ5</b>	3	
	3 position, black		13	240	0,140	<b>PXB-B2111BJ5</b>	3	
	Non latching selector button with long handle	Spring	13	50	0,140	<b>PXB-B1221BJ5</b>	3	
	3 position, black		13	240	0,140	<b>PXB-B2221BJ5</b>	3	





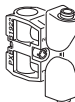

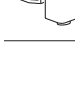

## Switch bodies with operating head mounting

For use with ZB2-B operating heads, see page 7-4

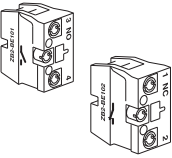


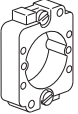
	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Plunger	Spring	13	50	0,045	<b>PXB-B1011</b>	1
				13	240	0,060	<b>PXB-B2011</b>	1
		Plunger	Spring	13	50	0,045	<b>PXB-B1021</b>	1
				13	240	0,060	<b>PXB-B2021</b>	1

## Additional switch valves

For use with PBX bodies with operating head mounting

	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Plunger	Spring	13	50	0,020	<b>PXB-B1911</b>	1
		Straight connection		13	240	0,035	<b>PXB-B2911</b>	1
		Plunger	Spring	13	50	0,020	<b>PXB-B1921</b>	1
		Straight connection		13	240	0,035	<b>PXB-B2921</b>	1
		Plunger	Spring	13	50	0,025	<b>PXB-B1912</b>	1
		Swivel connection		13	240	0,040	<b>PXB-B2912</b>	1
		Plunger	Spring	13	50	0,025	<b>PXB-B1922</b>	1
		Swivel connection		13	240	0,040	<b>PXB-B2922</b>	1




## Electrical contact blocks

	Connections	Type of contact	Weight Kg	Order code	D
	Can be combined with pneumatic valve blocks, enabling pneumatic and electric signals to be provided from a single control unit. They can be mounted with both types of valve PXB-B1... and PXB-B2...	Normally open (NO) 	0,015	<b>ZB2-BE101</b>	3
		Normally closed (NC) 	0,015	<b>ZB2-BE102</b>	3
	<b>Mounting block for valves and operating heads:</b> to make up a complete pushbutton with one or two switching elements with Ø4 mm Push-in swivel connections, use this mounting block and select the operating heads on pages 7-4 and 7-5.		0,025	<b>ZB2-BZ009</b>	3

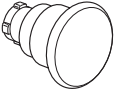
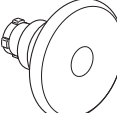
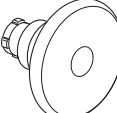
## Operating heads

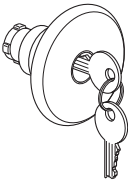
For use with PXB-B switch bodies

## Spring return push buttons


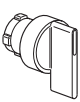
	Description	Colour	Weight Kg	Order code	D
	Flush	Black	0,030	<b>ZB2-BA2</b>	1
		Green	0,030	<b>ZB2-BA3</b>	1
		Red	0,030	<b>ZB2-BA4</b>	1
		Yellow	0,030	<b>ZB2-BA5</b>	3
		Blue	0,030	<b>ZB2-BA6</b>	3
			Projecting	Black	0,030
Green	0,030			<b>ZB2-BL3</b>	1
Red	0,030			<b>ZB2-BL4</b>	1
Yellow	0,030			<b>ZB2-BL5</b>	3
Blue	0,030			<b>ZB2-BL6</b>	3
	Flush booted			Black	0,025
		Green	0,025	<b>ZB2-BP3</b>	1
		Red	0,025	<b>ZB2-BP4</b>	1
		Yellow	0,030	<b>ZB2-BP5</b>	3
		Blue	0,030	<b>ZB2-BP6</b>	3

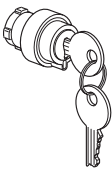
## Mushroom head push buttons

	Description	Function	Colour	Weight Kg	Order code	D
	Ø40 mm mushroom head	Spring return	Black	0,045	<b>ZB2-BC2</b>	1
			Green	0,045	<b>ZB2-BC3</b>	1
			Red	0,045	<b>ZB2-BC4</b>	1
			Yellow	0,045	<b>ZB2-BC5</b>	3
			Blue	0,045	<b>ZB2-BC6</b>	3
				Ø60 mm mushroom head	Latching push-pull	Black
Red	0,075	<b>ZB2-BT4</b>				1
	Ø60 mm mushroom head	Spring return	Black	0,055	<b>ZB2-BR2</b>	1
			Red	0,055	<b>ZB2-BR4</b>	1
		Latching push-pull	Black	0,080	<b>ZB2-BX2</b>	3
			Red	0,080	<b>ZB2-BX4</b>	3

	Description	Function	Colour	Weight Kg	Order code	D
	Ø40 mm mushroom head	Latching Turn to release	Red	0,055	<b>ZB2-BS54</b>	1
		Latching Release by Ronis key N° 455	Red	0,090	<b>ZB2-BS14</b>	1
	Ø60 mm mushroom head	Latching Turn to release	Red	0,065	<b>ZB2-BS64</b>	3
		Latching Release by Ronis key N° 455	Red	0,120	<b>ZB2-BS24</b>	3

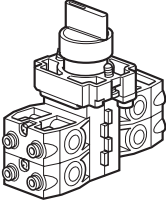
## Selector switches

	Description	Function		Weight Kg	Order code	D
	Standard, black handle	2 positions	Stay put	0,040	<b>ZB2-BD2</b>	1
		3 positions	Stay put	0,040	<b>ZB2-BD3</b>	1
		2 spring return to centre		0,040	<b>ZB2-BD5</b>	3
	Long black handle	2 positions	Stay put	0,045	<b>ZB2-BJ2</b>	1
		3 positions	Stay put	0,045	<b>ZB2-BJ3</b>	1
		Spring return to centre		0,045	<b>ZB2-BJ5</b>	1
		1 spring return from left to centre		0,045	<b>ZB2-BJ7</b>	3

	Description	Function	Key withdrawal	Weight Kg	Order code	D
	<b>Key operated</b> (Ronis N° 455)	2 stay put positions	Left	0,070	<b>ZB2-BG2</b>	1
			Left and right	0,070	<b>ZB2-BG4</b>	1
		3 stay put positions	Left	0,070	<b>ZB2-BG3</b>	3
			Left and right	0,070	<b>ZB2-BG5</b>	1
		3 positions Spring return to centre	Centre	0,070	<b>ZB2-BG7</b>	3

## Ø22 mm Rotary switches with 3/2 switch valves

Flow 50 NI/min, without mechanical stop

	Operating head	Type of switch **	Weight Kg	Order code	D
	4 positions - 4 switch valves 3/2 *				
	Black handle with 64 x 64 mm legend plate red or black background	NC	0,210	<b>PXB-DD104</b>	1
	8 positions - 8 switch valves 3/2 *				
	Black handle with 64 x 64 mm legend plate red or black background	NC	0,310	<b>PXB-DD508</b>	1
	12 positions - 12 switch valves 3/2 *				
	Black handle with 64 x 64 mm legend plate red or black background	NC	0,450	<b>PXB-DD512</b>	3

\* These Rotary switches operate in either direction and incorporate PXB-B1921 type switch valves. Rotation of the operating head releases one valve and operates the next. Example of operation: Rotation from position 1 to position 2

- Switch valve 1 changes mode from NO to NC
- Switch valve 2 changes mode from NC to NO

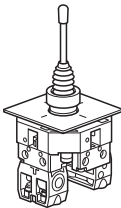
\*\* NC: normally closed



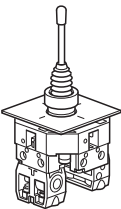
## Ø22 mm Joystick controllers with 3/2 switch valve

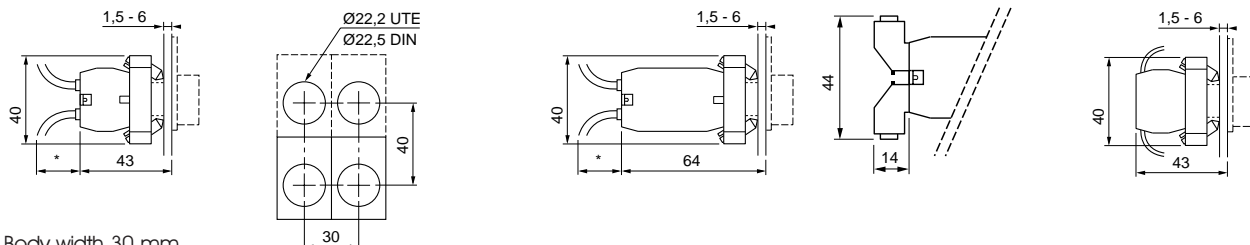
Flow 50 NI/min

### 2 direction - 2 switch valves 3/2 \*

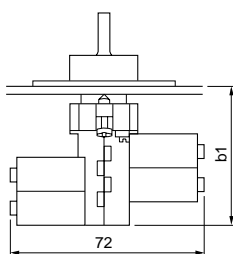
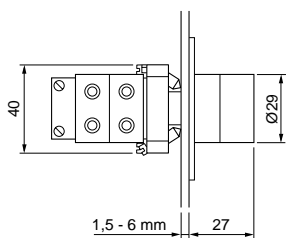
	Operating head	Function	Type of switch *	Weight Kg	Order code	D
	Chrome plated lever with protective bellows	1 stay put position in each direction	NC	0,300	<b>PXB-GA8211</b>	3
	40 x 64 mm legend plate red or black background	1 position in each direction with spring return	NC	0,300	<b>PXB-GA8221</b>	1

### 4 direction - 4 switch valves 3/2 \*

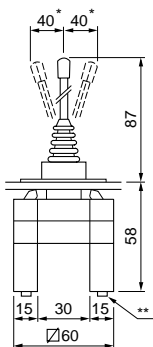
	Operating head	Function	Type of switch *	Weight Kg	Order code	D
	Chrome plated lever with protective bellows	1 stay put position in each direction	NC	0,330	<b>PXB-GA4211</b>	3
	40 x 64 mm legend plate red or black background	1 position in each direction with spring return	NC	0,330	<b>PXB-GA8421</b>	1



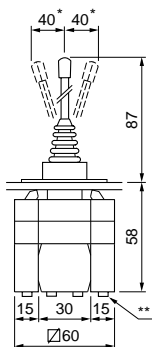
Body width 30 mm  
 \* with 2 x 4 mm tube = 10  
 with 2,7 x 4 mm tube = 15



b1	
4 positions	60
8 positions	90
12 positions	120

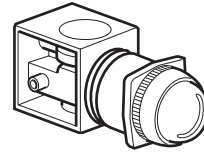


\* In both directions  
 \*\* Ø4 mm push-in connections



\* In 4 directions  
 \*\* Ø4 mm push-in connections

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



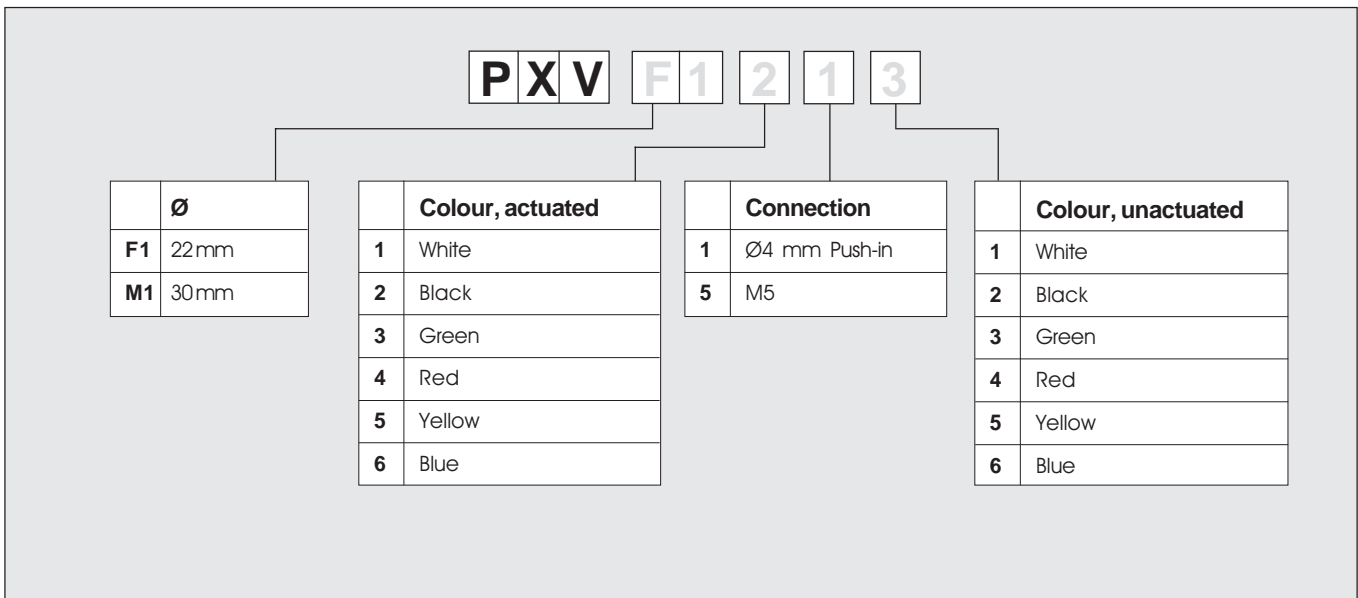
## Operating information

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




## Ø22 mm Visual Indicators

Black plastic bezel  
In the actuated mode

Symbol	Colour *	Weight Kg	Order code	D
	Green	0,080	<b>PXV-F131</b>	1
	Red	0,080	<b>PXV-F141</b>	1
	Yellow	0,080	<b>PXV-F151</b>	1
	Blue	0,080	<b>PXV-F161</b>	1
	White	0,080	<b>PXV-F111</b>	1


## Ø22 mm Visual Indicators

Black plastic bezel  
In the unactuated mode

Symbol	Colour *	Weight Kg	Order code	D
	Green	0,080	<b>PXV-F1213</b>	3
	Red	0,080	<b>PXV-F1214</b>	3
	Yellow	0,080	<b>PXV-F1215</b>	3
	Blue	0,080	<b>PXV-F1216</b>	3
	White	0,080	<b>PXV-F1211</b>	3

## Ø30 mm Visual Indicators

Chrome plated bezel  
In the unactuated mode

Symbol	Colour *	Weight Kg	Order code	D
	Green	0,085	<b>PXV-M131</b>	1
	Red	0,085	<b>PXV-M141</b>	3
	Yellow	0,085	<b>PXV-M151</b>	3

\* 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

### Ø22 mm visual indicators PXV-F1\*\*

Minimum distance between centres

