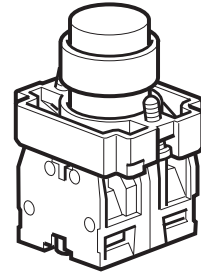


Push Buttons and Limit Switches



- 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
PXB-B2 ••	3 to 8 bar		Ø4 mm swivel Push-in on request
Working temperature	-15 °C to +60 °C		Ø6 mm Push-in on request
			M5 on request
Flow PXB-B1•• (acc. to ISO 6358)	Q _{max} =50 l/min		
Flow PXB-B2•• (acc. to ISO 6358)	Q _{max} =240 l/min	Ø4 mm straight Push-in (other types on request)	

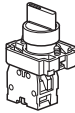


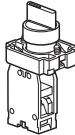





Spring return pushbuttons

Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
	Push-button Black	Spring	13 13	50 240	0,090 0,090	PXB-B1011BA2 PXB-B2011BA2	3 3
	Push-button Black	Spring	13 13	50 240	0,125 0,125	PXB-B1121BA2 PXB-B2121BA2	3 3
	Push-button Green	Spring	13 13	50 240	0,090 0,090	PXB-B1011BA3 PXB-B2011BA3	3 3
	Push-button Red	Spring	13 13	50 240	0,090 0,090	PXB-B1011BA4 PXB-B2011BA4	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	Spring	13 18	50 240	0,105 0,105	PXB-B1011BC2 PXB-B2011BC2	3 3
	Latching push-button Ø40 mm Red		50 50	50 240	0,135 0,135	PXB-B1011BT4 PXB-B2011BT4	3 3
	Latching push-button Ø40 mm Red		5 da 50	50 240	0,135 0,135	PXB-B1021BT4 PXB-B2021BT4	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	PXB-B1011BD2	3
		2 position, Black		45	240	0,100	PXB-B2011BD2	3
		Latching selector button		45	50	0,135	PXB-B1111BD2	3
		2 position, Black		45	240	0,135	PXB-B2111BD2	3
		Latching selector button		45	50	0,135	PXB-B1121BD2	3
		2 position, Black		45	240	0,135	PXB-B2121BD2	3
		Latching selector button		45	50	0,135	PXB-B1111BD3	3
		3 position, Black		45	240	0,135	PXB-B2111BD3	3
		Latching selector button		45	50	0,135	PXB-B1121BD3	3
		3 position, Black		45	240	0,135	PXB-B2121BD3	3
	Non latching selector button with long handle	Spring		13	50	0,140	PXB-B1111BJ5	3
	3 position, black			13	240	0,140	PXB-B2111BJ5	3
	Non latching selector button with long handle	Spring		13	50	0,140	PXB-B1221BJ5	3
	3 position, black			13	240	0,140	PXB-B2221BJ5	3





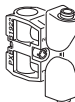

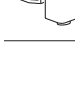

Switch bodies with operating head mounting

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

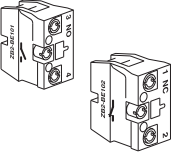


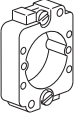
	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow NI/min	Weight Kg	Order code	D
		Plunger	Spring	13	50	0,045	PXB-B1011	1
				13	240	0,060	PXB-B2011	1
		Plunger	Spring	13	50	0,045	PXB-B1021	1
				13	240	0,060	PXB-B2021	1

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	PXB-B1911	1
		Straight connection		13	240	0,035	PXB-B2911	1
		Plunger	Spring	13	50	0,020	PXB-B1921	1
		Straight connection		13	240	0,035	PXB-B2921	1
		Plunger	Spring	13	50	0,025	PXB-B1912	1
		Swivel connection		13	240	0,040	PXB-B2912	1
		Plunger	Spring	13	50	0,025	PXB-B1922	1
		Swivel connection		13	240	0,040	PXB-B2922	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	ZB2-BE101	3
		Normally closed (NC) 	0,015	ZB2-BE102	3
	Mounting block for valves and operating heads: 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	ZB2-BZ009	3

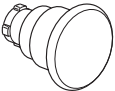
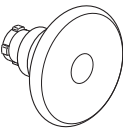
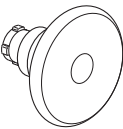
Operating heads

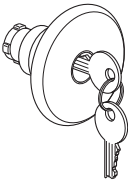
For use with PXB-B switch bodies

Spring return push buttons


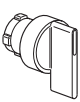
	Description	Colour	Weight Kg	Order code	D
	Flush	Black	0,030	ZB2-BA2	1
		Green	0,030	ZB2-BA3	1
		Red	0,030	ZB2-BA4	1
		Yellow	0,030	ZB2-BA5	3
		Blue	0,030	ZB2-BA6	3
			Projecting	Black	0,030
Green	0,030			ZB2-BL3	1
Red	0,030			ZB2-BL4	1
Yellow	0,030			ZB2-BL5	3
Blue	0,030			ZB2-BL6	3
	Flush booted		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

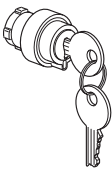
Mushroom head push buttons

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

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

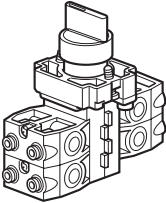
Selector switches

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

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

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	PXB-DD104	1
	8 positions - 8 switch valves 3/2 *				
	Black handle with 64 x 64 mm legend plate red or black background	NC	0,310	PXB-DD508	1
	12 positions - 12 switch valves 3/2 *				
	Black handle with 64 x 64 mm legend plate red or black background	NC	0,450	PXB-DD512	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

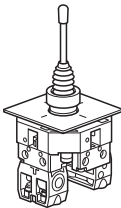
** NC: normally closed



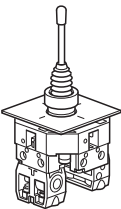
Ø22 mm Joystick controllers with 3/2 switch valve

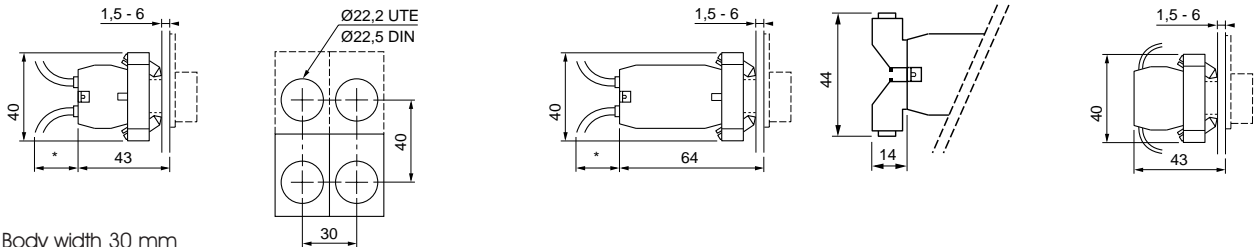
Flow 50 NI/min

2 direction - 2 switch valves 3/2 *

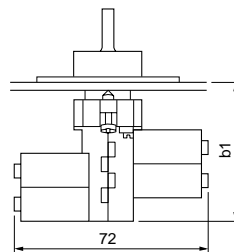
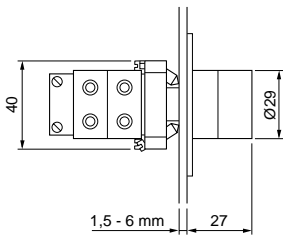
	Operating head	Function	Type of switch *	Weight Kg	Order code	D
	Chrome plated lever with protective bellows	1 stay put position in each direction	NC	0,300	PXB-GA8211	3
	40 x 64 mm legend plate red or black background	1 position in each direction with spring return	NC	0,300	PXB-GA8221	1

4 direction - 4 switch valves 3/2 *

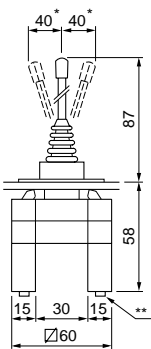
	Operating head	Function	Type of switch *	Weight Kg	Order code	D
	Chrome plated lever with protective bellows	1 stay put position in each direction	NC	0,330	PXB-GA4211	3
	40 x 64 mm legend plate red or black background	1 position in each direction with spring return	NC	0,330	PXB-GA8421	1



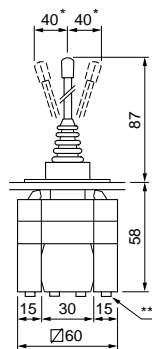
Body width 30 mm
 * with 2 x 4 mm tube = 10
 with 2,7 x 4 mm tube = 15



b1	
4 positions	60
8 positions	90
12 positions	120

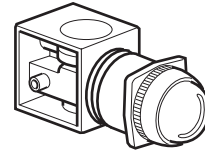


* In both directions
 ** Ø4 mm push-in connections



* 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



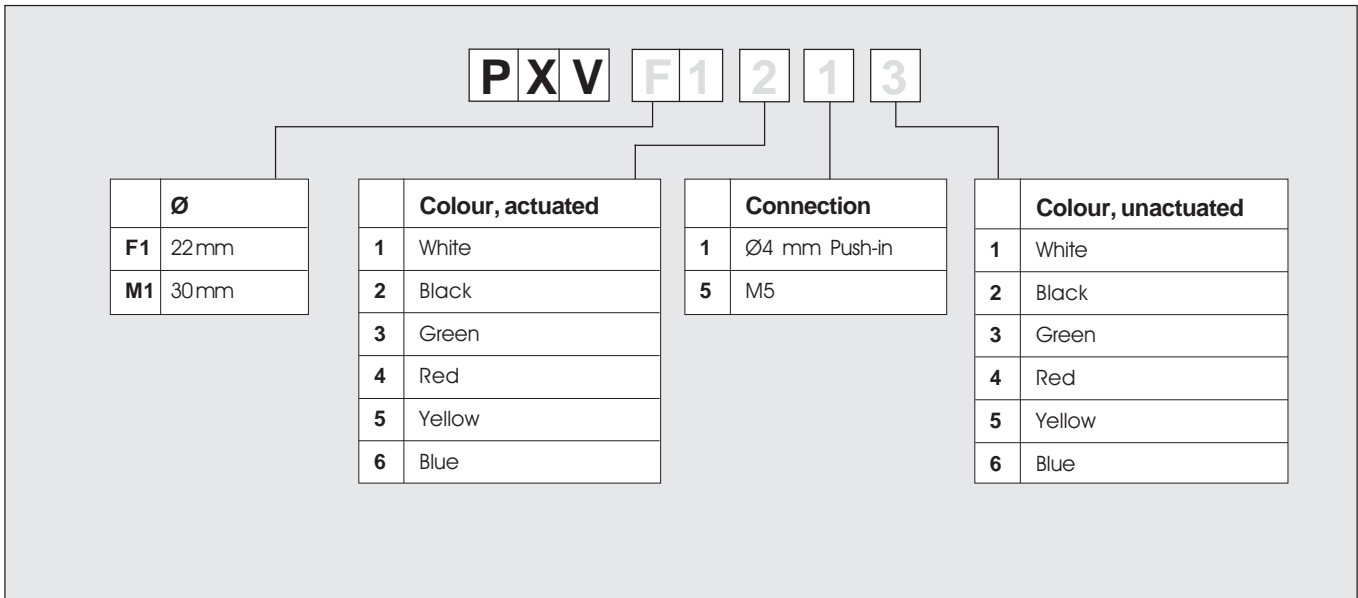
Operating information

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	PXV-F131	1
	Red	0,080	PXV-F141	1
	Yellow	0,080	PXV-F151	1
	Blue	0,080	PXV-F161	1
	White	0,080	PXV-F111	1


Ø22 mm Visual Indicators

Black plastic bezel
In the unactuated mode

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

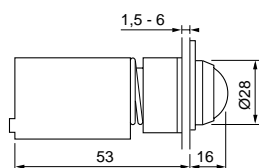
Ø30 mm Visual Indicators

Chrome plated bezel
In the unactuated mode

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

