

Type PBH Contact Block

- High switching power
- Double switch
- Industrial applications
- Up to 500VAC
- 10A switching capacity
- Modular mounting (up to 3 elements)
- Screw terminals
- High reliability
- IEC/EN 60947-5-1, IEC/EN 60947-5-5



Product description

Switching element equipped with two independent elements. Available in different switching configurations. Pole and throw configurations can be single pole single throw (SPST) or double pole single throw (DPST). Elements can be snapped to each other on the bottom, up to 3.

Technical data

Contact resistance	≤50mΩ
Travel	5.8 ± 0.2mm
Rated insulation Voltage U _i	660VAC (acc.to IEC60947-5-1)
Rated imp.withstand voltage U _{lim}	2500VAC 50Hz 1min.
Minimum switching power	100mA 24V
Switch housing	PC
Contact parts	CU
Contact material	Hard Silver
Standard	Gold/silver
Optional	
Operating temperature	-25 to + 70°C
Storage temperature	-30 to + 80°C

Contact characteristics

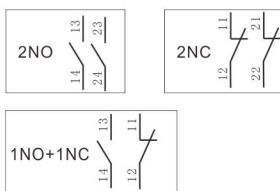
Contact Rating Ac1	10A-250VAC
Contact Rating Ac15 (acc.to IEC 60947-5-1)	6A-200VAC 4A-380VAC
Contact Rating (acc.to UL 508)	A600
Contact Rating Dc13 (acc.to IEC 60947-5-1)	3A-48VDC 1A-110VDC
Contact Rating (acc.to UL 508)	0.5A-220VDC 0.25A-440VDC
	Q600

Terminals

Screw terminals

Max. Section single-core wire	2x2.5mm ²
Max. Section stranded wire	2x1.5mm ²

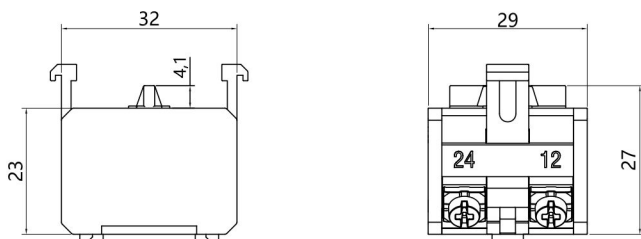
Wiring Diagram



Order Code

Type	Number of contact	contact code	Type	Part No.	
				hard silver	Gold/Silver
Contact block	One contact	1NO (10)	Snap action =1	PBZ-110/□	PBZ-G110/□
		1NC (01)		PBZ-101/□	PBZ-G101/□
	Two contacts	1NO+1NC (11)	Slow action =2* (for emergency switches)	PBZ-211/□	PBZ-G211/□
		2NO (20)		PBZ-220/□	PBZ-G220/□
		2NC (02)		PBZ-202/□	PBZ-G202/□

Dimensions (mm)



Φ22 PB Series Control Units & Pilot lamp

Ultra-short contact, Split control components

Key features:

- Combined contact module, installation and disassembly more convenient
- Locking lever removable contact blocks
- Finger-safe Ip20 contacts
- Easy to assemble
- Choice of black plastic or metallic front bezels
- Slow make double break contacts
- LED illumination
- Standard GB14048.5, IEC60947-5-1, 60947-5-5

Specifications

Contact Resistance	≤50mΩ (Initial Value)
Insulation Resistance	≥100MΩ (500Ω DC megger)
Rated Impulse Withstanding Voltage	Between live part and ground □ 4000VAC 1minute
	Lamp circuit: 2500VAC 1minute
Vibration Resistance	Operating extremes: 5~55Hz, amplitude 0.5mm
Shock Resistance	Damage limits: 1000m/s ²
	Operating extremes: 100m/s ²
Mechanical life	Momentary: 3,000,000;
	Maintained: 500,000;
	Selector switches, E-stop switches: 50,000
Operating force	8N
Operating Travel	5.5mm±0.2mm
Terminal	Screw M3.5, Wire 1~2.5mm ²
Tightening torque	Screw terminal 0.8Nm
Electrical life	50,000 cycles of operation
Terminal	M3.5 Screw, Wire 1~2.5mm ²
Operating Temperature	-25~+50°C (non-freezing)
Storage Temperature	-40~+80°C
Operating Humidity	45~85%Rh (non-condensing)
Protection degree	IP54; IP40 front side

Contact Ratings

	Rated insulation Voltage Ui	660V					
	Thermal Current Ith	10A					
	Operating Voltage	24V	48V	60V	110V	220V	380V
	Operating Current	DC-13	6A	3A	—	1A	0.5A
AC-15		—	—	—	10A	6A	3A

• Minimum applicable load (reference value) : 3V AC/DC · 1 mA

• Contact Material: Silver & Gold-Silver

LED Lamp Ratings

Rated Voltage	6VAC/DC	12VAC/DC	24VAC/DC	110VDC	220VDC
Voltage Category	±20%				
Current Draw	8mA	11mA	11mA	—	—
	A; R; W: 7 mA ; G, PW, S: 5.5 mA 10 mA 10 mA				
Color code	R: Red; G: Green; Y: Yellow; B: Blue; W: White; A: Amber				
Lens color are same as illumination color					
Life (reference value)	Approx. 50,000 hours (The luminance reduces to 50% the initial intensity when used on complete DC..)				
Internal Circuit					

Contact

Contact State	Contact Code
	10:1NO 20:2NO 30:3NO 40:4NO 50:5NO 60:6NO
	01:1NC 02:2NC 03:3NC 04:4NC 05:5NC 06:6NC
	11:1NO+1NC 22:2NO+2NC 33:3NO+3NC

Mounting hole layout

