

30mm Push Buttons & Operator Interface PBM30 chromium plated metal bezel PB30 plastic bezel

Features

- Available in die cast chrome plated (PBM30) and double insulated head (PB30)
- Wide variety of operators available
- Double break, slow action, self-clean contacts
- Positive opening of normal close contact
- Double insulated version can be used in corrosive environment
- Finger safe contact block
- Contact blocks are securely fasten to the connecting block by screw
- UL, cUL Listed (UL file number E216958)



Characteristics

Nominal thermal current	10 A conforming to IEC 60947-5-1, NF C 63-140, UL 508, CSA 22-2 No. 14, VDE 0660 part 2, NEMA / UL Type A600-Q600.
Nominal insulation voltage	500 V conforming to NF C 20-040, VDE 0110, IEC 60158-1, 600 V conforming to UL 508
Contact operation	Slow- make N.O. or slow-break N.C. with direct opening operation conforming to EN60947-5-1 section 3.
Contact resistance	<25mΩ (initial value)
Operating force	Flush or projecting push buttons - with 1 NO contact: 2.25 lb (10N) - with 1 NC contact: 1.8 lb (8N) Additional contacts - N.O.: add 1 lb(4.5N) - N.C.: add 0.7 lb(3.1N)
Short circuit protection	10 A cartridge fuses, GI or N conforming to IEC 60269-1 and VDE 0660-200.
Ambient temperature	Operating: -25 °C to +70 °C (-13 °F to +158 °F) Storage: -40 °C to +70 °C (-40 °F to +158 °F)
Resistance to vibration	60 mm diameter mushroom head: 8 g. Other push buttons: 15 g. Small joystick controllers: 5 g (from 40 to 50 Hz) Conforming to IEC 60068-2-6.
Resistance to shock	Push buttons: 70 g. Mushroom head push-buttons: 15 g. Selector switches: 200 g. Conforming to IEC 60068-2-27.
Protection against electric shock	Class 1, conforming to IEC 60536 and NF C 20-030.
Degree of protection conforming to IEC 60529	NEMA 4, IP65
Mechanical life	Push buttons 3 million operations Latching mushroom head push buttons: 300,000 operations. Illuminated selector switches: 100,000 operations
Approvals	UL/cUL: push buttons and selector switches NEMA / UL Type A600-Q600; E216958 pilot lights and illuminated push buttons direct supply (250 V max.); pilot lights and illuminated push buttons with transformer (600 V)
Conformity to standards	UL 508, IEC 60947-5-1, EN60947-5-1, IEC 60337-1, IEC 60337-2, VDE 0660, CSA C 22-2

AC Rating, NEMA/UL A600

Volts	Inductive 35% Power factor				Continuous carrying Amperes	Resistive 75% Power factor Make, Break and continuous Amperes
	Make Amperes	VA	Break Amperes	VA		
120	60	7200	6	720	10	10
240	30	7200	3	720	10	10
480	15	7200	1.5	720	10	10
600	12	7200	1.2	720	10	10

DC Rating, NEMA/UL Q600 Inductive and resistive

Volts	Make and break	Continuous
125	0.55	2.5
250	0.27	2.5
600	0.10	2.5

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PBM	PB30	Description	Part Numbers	Contacts
		Extended Guard Pushbutton	<ul style="list-style-type: none"> ○ PB(M)30-GP-W ● PB(M)30-GP-B ● PB(M)30-GP-G ● PB(M)30-GP-R ● PB(M)30-GP-Y ● PB(M)30-GP-U ● PB(M)30-GP-A 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Full Guard Pushbutton	<ul style="list-style-type: none"> ○ PB(M)30-FP-W ● PB(M)30-FP-B ● PB(M)30-FP-G ● PB(M)30-FP-R ● PB(M)30-FP-Y ● PB(M)30-FP-U ● PB(M)30-FP-A 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		No Guard Pushbutton	<ul style="list-style-type: none"> ○ PB(M)30-EP-W ● PB(M)30-EP-B ● PB(M)30-EP-G ● PB(M)30-EP-R ● PB(M)30-EP-Y ● PB(M)30-EP-U ● PB(M)30-EP-A 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Mechanical Interlock Buttons (Maintained)	<ul style="list-style-type: none"> ● ● PB(M)30-MIP-BR ● ● PB(M)30-MIP-GR 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Mushroom-Head Pushbutton (40mm)	<ul style="list-style-type: none"> ○ PB(M)30-MP-W ● PB(M)30-MP-B ● PB(M)30-MP-G ● PB(M)30-MP-R ● PB(M)30-MP-Y ● PB(M)30-MP-U ● PB(M)30-MP-A 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Mushroom-Head Pushbutton (60mm)	<ul style="list-style-type: none"> ○ PB(M)30-MP6-W ● PB(M)30-MP6-B ● PB(M)30-MP6-G ● PB(M)30-MP6-R ● PB(M)30-MP6-Y ● PB(M)30-MP6-U ● PB(M)30-MP6-A 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC

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		2- maintained	PB(M)30-S2M-B	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		2-spring return R to L	PB(M)30-S2L-B	
		2-spring return L to R	PB(M)30-S2R-B	
		3- maintained	PB(M)30-S2M-B	
		3-spring return R to C	PB(M)30-S2ML-B	
		3-spring return L to C	PB(M)30-S2MR-B	
		3-spring return L/R to C	PB(M)30-S3-B	
		2- maintained	PB(M)30-SL2M-B	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		2-spring return R to L	PB(M)30-SL2L-B	
		2-spring return L to R	PB(M)30-SL2R-B	
		3- maintained	PB(M)30-SL2M-B	
		3-spring return R to C	PB(M)30-SL2ML-B	
		3-spring return L to C	PB(M)30-SL2MR-B	
		3-spring return L/R to C	PB(M)30-SL3-B	
		2- maintained	PB(M)30-SK2M-	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		2-spring return R to L	PB(M)30-SK2L-	
		2-spring return L to R	PB(M)30-SK2R-	
		3- maintained	PB(M)30-SK2M-	
		3-spring return R to C	PB(M)30-SK2ML-	
		3-spring return L to C	PB(M)30-SK2MR-	
		3-spring return L/R to C	PB(M)30-SK3-	
		4- maintained	PB(M)30-SK4M-	
		Add suffixed for key options: -blank: Key removed in any position -C: Key removed from center -R: Key removed from right -L: Key removed from left		

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		Emergency Stop (Push-Pull) (40mm)	<ul style="list-style-type: none"> ● PB(M)30-ES-R (2-position) ● PB(M)30-E3S-R (3-position) 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P6: 1NC P8: 2NC
		Emergency Stop (Push-Pull) (60mm)	<ul style="list-style-type: none"> ● PB(M)30-ES6-R (2-position) ● PB(M)30-E3S6-R (3-position) 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P6: 1NC P8: 2NC
		Emergency Stop Break Glass Button	● PB(M)30-BG-Y	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Joystick Controller	<ul style="list-style-type: none"> ● 3-Position Horizontal PB(M)30-JS3H-R ● 3-Position Vertical PB(M)30-JS3V-R ● 5-Position PB(M)30-JS5-R 	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
			5-Position with latch PB(M)30-JS5L	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC P7: 2NO P8: 2NC
		Potentiometer	1K PB(M)30-VR-1K 2.5k PB(M)30-VR-2/5K 5K PB(M)30-VR-5K 10K PB(M)30-VR-10K 25K PB(M)30-VR-25K	

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		Pilot Light (LED)	PB(M)30-PL- Direct voltage suffix - Color suffix D6E: 6 VAC/DC ○ -W D12E: 12 VAC/DC ● -G D24E: 24 VAC/DC ● -R D120E: 120 VAC/DC ● -Y D240E: 240VAC/DC ● -U Transformer type suffix: T120E: 120 V (in) 6V (out) ● -A T240E: 240 V (in) 6V (out) T380E: 380 V (in) 6V (out) T600E: 600 V (in) 6V (out)	
		Push-To-Test Pilot Light (LED)	PB(M)30-PTL- Direct voltage suffix - Color suffix D6E: 6 VAC/DC ○ -W D12E: 12 VAC/DC ● -G D24E: 24 VAC/DC ● -R D120E: 120 VAC/DC ● -Y D240E: 240VAC/DC ● -U Transformer type suffix: T120E: 120 V (in) 6V (out) ● -A T240E: 240 V (in) 6V (out) T380E: 380 V (in) 6V (out) T600E: 600 V (in) 6V (out)	Add suffix: P5: 1NO
		Illuminated Pushbutton No Guard (LED)	PB(M)30-EP- Direct voltage suffix - Color suffix D6E: 6 VAC/DC ○ -W D12E: 12 VAC/DC ● -G D24E: 24 VAC/DC ● -R D120E: 120 VAC/DC ● -Y D240E: 240VAC/DC ● -U Transformer type suffix: T120E: 120 V (in) 6V (out) ● -A T240E: 240 V (in) 6V (out) T380E: 380 V (in) 6V (out) T600E: 600 V (in) 6V (out)	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC
		Illuminated Pushbutton Full Plastic Guard (LED)	PB(M)30-FP- Direct voltage suffix - Color suffix D6E: 6 VAC/DC ○ -W D12E: 12 VAC/DC ● -G D24E: 24 VAC/DC ● -R D120E: 120 VAC/DC ● -Y D240E: 240VAC/DC ● -U Transformer type suffix: T120E: 120 V (in) 6V (out) ● -A T240E: 240 V (in) 6V (out) T380E: 380 V (in) 6V (out) T600E: 600 V (in) 6V (out)	Add suffix: P1: 1NO/1NC P2: 2NO/2NC P5: 1NO P6: 1NC
		Illuminated Pushbutton Full Metal Guard (LED)	PB(M)30-GP- Direct voltage suffix - Color suffix D6E: 6 VAC/DC ○ -W D12E: 12 VAC/DC ● -G D24E: 24 VAC/DC ● -R D120E: 120 VAC/DC ● -Y D240E: 240VAC/DC ● -U Transformer type suffix: T120E: 120 V (in) 6V (out) ● -A T240E: 240 V (in) 6V (out) T380E: 380 V (in) 6V (out) T600E: 600 V (in) 6V (out)	

Indicator Lights (LED)

Pictures	Description	Part Numbers													
	<p>5/16" Diameter IP50 (IP65 with seal)</p>	<p>IL-1F-</p> <table border="0"> <tr> <td>Voltage suffix</td> <td>Color suffix</td> </tr> <tr> <td>6E: 6 VAC/DC</td> <td>○ -W</td> </tr> <tr> <td>12E: 12 VAC/DC</td> <td>● -G</td> </tr> <tr> <td>24E: 24 VAC/DC</td> <td>● -R</td> </tr> <tr> <td>120E: 120 VAC/DC</td> <td>● -U</td> </tr> <tr> <td>240E: 240VAC/DC</td> <td>● -A</td> </tr> </table>	Voltage suffix	Color suffix	6E: 6 VAC/DC	○ -W	12E: 12 VAC/DC	● -G	24E: 24 VAC/DC	● -R	120E: 120 VAC/DC	● -U	240E: 240VAC/DC	● -A	<p>Add suffix for wire length: e.g: -U6 for 6 inch -M20 for 20cm</p>
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	<p>12 mm Diameter IP40 (IP65 with seal)</p>	<p>IL-3E-</p> <table border="0"> <tr> <td>Voltage suffix</td> <td>Color suffix</td> </tr> <tr> <td>6E: 6 VAC/DC</td> <td>○ -W</td> </tr> <tr> <td>12E: 12 VAC/DC</td> <td>● -G</td> </tr> <tr> <td>24E: 24 VAC/DC</td> <td>● -R</td> </tr> <tr> <td>120E: 120 VAC/DC</td> <td>● -U</td> </tr> <tr> <td>240E: 240VAC/DC</td> <td>● -A</td> </tr> </table>	Voltage suffix	Color suffix	6E: 6 VAC/DC	○ -W	12E: 12 VAC/DC	● -G	24E: 24 VAC/DC	● -R	120E: 120 VAC/DC	● -U	240E: 240VAC/DC	● -A	
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