## 22 mm PILOT DEVICES OMPBD7 SERIES PUSHBUTTONS AND SELECTOR SWITCHES

Heavy-Duty/Oil Tight Pushbuttons<br>- Quick Installation with Tool-Less Mounting Latch<br>- Plastic Operators: NEMA 4/4X/13 and IP65/66 Rated<br>- Metal Operators: NEMA 4/13 and IP65/66 Rated<br>- Touch-Safe Contact Blocks-with IP20 Recessed Screw Terminals<br>- Heavy-Duty Current Rating (10A Continuous)

TRODEKS rugged OMPBD7 pilot devices offer maximum flexibility and a wide choice for all applications. This 22 mm line is aesthetically appealing and modularly designed to make assembly and interchangeability easy. The OMPBD7 operators are available in two different body styles to meet every application need. Both operators exhibit a new lower profile stylish appearance while maintaining the rugged performance necessary for demanding environments.

## Two Operator Types

OMPBD7P is a plastic operator with a captive black plastic front bezel. Constructed of high-grade thermoplastics, the OMPBD7P is the corrosion resistant solution for harsh environments. For super tough applications, the OMPBD7M has a die-cast zinc housing and mounting ring for a rugged durability. Both are finished with corrosion resistant chrome plating. The OMPBD7M also features a captive shiny metal bezel for a polished appearance.

## Quick, Easy Installation

A standard anti-rotation tab keeps front elements from turning or falling off the control panel, making it possible for one person to install all OMPBD7 components even if the front and rear panel are not accessible at the same time. A central mounting ring allows for quick installation and removal of all OMPBD7 operators. All back-of-panel components including contact blocks

and power module elements snap-on and are readily accessible and interchangeable without removing the pilot device from the panel.

## Tool-Less Mounting Latch

 The OMPBD7 "tool-less" mounting latch mates the front element with the contact blocks and other back-of-panel components. The mounting latch is available in a plastic and metal design. The latches are easily installed with a "click" and removed by pushing a rotating collar to the right. Quick, reliable and strong, it's the best pilot device mounting latch available in the industry.Most OMPBD7 operators have a mechanical of ten million operations... five million contact blocks. Electrical life ranges from 500,000 cycles at 3 A to ten million at 0.1 A . The OMPBD7 line is also electronics compatible with self cleaning contacts.

## Environmental Ratings

Front elements, including pushbuttons, mushroom operators and selector switches, are IP66 rated against submersion, oil and dirt, making them reliable in the toughest industrial environments. Metal operators are NEMA 4/13 rated and plastic operators are rated NEMA 4/4X/13.

OMPBD7-X01, \$8.50.


Red = normally closed.

OMPBD7-X10, \$8.50.


Green = normally open.


Rear view.


OMPBD7M-HM22PX01, two way metal selector switch with long knob. Each unit includes tool-less mounting latch and one normally closed contact block. Shown with two additional (up to 6 total per operator possible) normally open contact blocks, model OMPBD7-X10, \$8.50 each.

## Additional Features and Options

Heavy-Duty Ratings-The OMPBD7 line is UL 46E, NEMA A600 and Q600 listed. All components carry a 10 Amp continuous current rating, covering all industrial control needs.
All Major Approvals—OMPBD7 front elements are UL Recognized, while all OMPBD7 assemblies are UL Approved.
The line is also approved by every major international agency making them ideal for export requirements.

## H-Bridge \& Gold Plated Contacts-

By doubling the available paths for current to pass through the contacts, the standard H-bridge design provides a cleaner current flow. Gold plated contacts quadruple the current paths for increased contact reliability in low voltage applications.
Touch-Safe-Back of panel components are finger safe, with IP20 protection.
Long Lasting Integral LED AssembliesOur new LED lamps last up to 11 years! They are conveniently offered as a complete unit for all illuminated operators which include the one piece Integral LED Module. They come in five different colors: amber, blue, green, red and white.

Panel Hole Dimensions: mm (in)


## 22 mm PUSHBUTTONS NON-ILLUMINATED PUSHBUTTONS AND E-STOPS

OMPBD7-NL Series
Start at
$\$ 2$

OMPBD7M-F3PX10, \$24, metal pushbutton, flush button, green, momentary operation with one NO contact.

Each pushbutton includes one contact block. Units shown with two additional blocks (pushbuttons may be used with up to 6 contacts), see page l-26.


All models shown larger than actual size.


OMPBD7P-E4PX10, \$24, plastic pushbutton, extended button, red, momentary operation with one NO contact.


OMPBD7M-MM43PX01, \$36, metal pushbutton, 40 mm mushroom, green, momentary operation with one NC contact.


OMPBD7P-MT64PX10, \$45, plastic pushbutton, 60 mm mushroom, red, maintained operation with one NO contact.

| T1 Origer (specify Model Number) |  |  |  | MOST POPULAR MODELS HIGHLIGHTED! |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NON-ILLUMINATED PUSHBUTTONS-COMPLETE WITH LATCH AND ONE CONTACT BLOCK |  |  |  |  |  |  |
| METAL OPERATOR MODEL NO. | PRICE | PLASTIC OPERATOR MODEL NO. | PRICE | BUTTON STYLE | OPERATION | CONTACT |
| OMPBD7M-E(*)PX01 | \$26 | OMPBD7P-E(*)PX01 | \$24 | Extended | Momentary | 1 NC |
| OMPBD7M-E(*)PX10 | 26 | OMPBD7P-E(*)PX10 | 24 | Extended | Momentary | 1 NO |
| OMPBD7M-F(*)PX01 | 24 | OMPBD7P-F(*)PX01 | 22 | Flush | Momentary | 1 NC |
| OMPBD7M-F(*)PX10 | 24 | OMPBD7P-F(*)PX10 | 22 | Flush | Momentary | 1 NO |
| OMPBD7M-FA(*)PX01 | 28 | OMPBD7P-FA(*)PX01 | 26 | Flush | Maintained | 1 NC |
| OMPBD7M-FA(*)PX10E | 28 | OMPBD7P-FA(*)PX10E | 26 | Flush | Maintained | 1 NOEM |
| OMPBD7M-MM4(*)PX01 | 36 | OMPBD7P-MM4(*)PX01 | 31 | $\begin{gathered} 40 \mathrm{~mm} \\ \text { mushroom } \end{gathered}$ | Momentary | 1 NC |
| OMPBD7M-MM4(*)PX10 | 36 | OMPBD7P-MM4(*)PX10 | 31 | 40 mm mushroom | Momentary | 1 NO |
| OMPBD7M-MM6(*)PX01 | 39 | OMPBD7P-MM6(*)PX01 | 34 | 60 mm mushroom | Momentary | 1 NC |
| OMPBD7M-MM6(*)PX10 | 39 | OMPBD7P-MM6(*)PX10 | 34 | $\begin{gathered} 60 \mathrm{~mm} \\ \text { mushroom } \end{gathered}$ | Momentary | 1 NO |
| OMPBD7M-MP4(*)PX01 | 51 | OMPBD7P-MP4(*)PX01 | 47 | 40 mm push-pull | Maintained | 1 NC |
| OMPBD7M-MP4(*)PX10 | 51 | OMPBD7P-MP4(*)PX10 | 47 | 40 mm push-pull | Maintained | 1 NO |

[^0]| 10 Orajer (specify Model Number) |  | MOST POPULAR MODELS HIGHLIGHTED! |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TWIST-TO-RELEASE E-STOP PUSHBUTTONS-COMPLETE WITH LATCH AND ONE CONTACT BLOCK |  |  |  |  |  |  |
| METALOPERATOR MODEL NO. | PRICE | PLASTIC OPERATOR MODEL NO. | PRICE | BUTTON STYLE | OPERATION | CONTACT |
| OMPBD7M-MT34PX01 | \$48 | OMPBD7P-MT34PX01 | \$45 | 30 mm mushroom | Maintained | 1 NC |
| OMPBD7M-MT34PX10 | 48 | OMPBD7P-MT34PX10 | 45 | 30 mm mushroom | Maintained | 1 NO |
| OMPBD7M-MT34PX01S | 58 | OMPBD7P-MT34PX01S | 55 | 30 mm mushroom | Maintained | 1 GCB |
| OMPBD7M-MT44PX01 | 51 | OMPBD7P-MT44PX01 | 47 | 40 mm mushroom | Maintained | 1 NC |
| OMPBD7M-MT44PX10 | 51 | OMPBD7P-MT44PX10 | 47 | 40 mm mushroom | Maintained | 1 NO |
| OMPBD7M-MT44PX01S | 61 | OMPBD7P-MT44PX01S | 57 | 40 mm mushroom | Maintained | 1 GCB |
| OMPBD7M-MT64PX01 | 56 | OMPBD7P-MT64PX01 | 52 | 60 mm mushroom | Maintained | 1 NC |
| OMPBD7M-MT64PX10 | 56 | OMPBD7P-MT64PX10 | 52 | 60 mm mushroom | Maintained | 1 NO |
| OMPBD7M-MT64PX01S | 66 | OMPBD7P-MT64PX01S | 62 | 60 mm mushroom | Maintained | 1 GCB |
| OMPBD7M-MK44PX01 | 95 | OMPBD7P-MK44PX01 | 91 | Keyed 40 mm | Maintained | 1 NC |
| OMPBD7M-MK44PX10 | 95 | OMPBD7P-MK44PX10 | 91 | Keyed 40 mm | Maintained | 1 NO |
| OMPBD7M-MK44PX01S | 105 | OMPBD7P-MK44PX01S | 101 | Keyed 40 mm | Maintained | 1 GCB |

Come complete with one operator, one tool-less latch and one contact block.
Up to 6 contact blocks can be used per operator.

## ACCESSORIES

| MODEL NO. | PRICE | DESCRIPTION |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OMPBD7-N2 | \$4.00 | 22.5 mm (0.89") hole plug |  |  |  |
| OMPBD7-AW2 | 5.50 | Mounting ring wrench for plastic or metal operators. |  |  |  |
| OMPBD7-AKR3825 | 9.50 | Additional set of keys |  |  |  |
| CONTACT BLOCKS, UP TO 6 PER OPERATOR |  |  |  |  |  |
| MODEL NO. | PRICE | DESCRIPTION |  |  |  |
| OMPBD7-X01 | \$8.50 | One NC contact block |  |  |  |
| OMPBD7-X10 | 8.50 | One NO contact block |  |  |  |
| OMPBD7-X01L | 8.50 | One NCLB, late break contact block |  |  |  |
| OMPBD7-X10E | 8.50 | One NOEM, early make contact block |  |  |  |
| OMPBD7-X01V | 13.00 | One NC low voltage contact block |  |  |  |
| OMPBD7-X10V | 13.00 | One NO low voltage contact block |  |  |  |
| OMPBD7-X01S | 16.00 | GCB-Guardian Contact Block for E-stops |  |  |  |
| INSCRIPTION CAPS FOR NO CAP PUSHBUTTONS |  |  |  |  |  |
| MODEL NO. | PRICE | DESCRIPTION |  |  |  |
| OMPBD7-AF301 | \$2.75 | Green "START" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AF306 | 2.75 | Green "l" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AF402 | 2.75 | Red "O" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AF405 | 2.75 | Red "STOP" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AF3CE166 | 2.75 | Green "ON" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AE402 | 2.75 | Red "O" cap for flush momentary pushbuttons |  |  |  |
| OMPBD7-AE405 | 2.75 | Red "STOP" cap for flush momentary pushbuttons |  |  |  |
| LEGENDS-BLACK WITH WHITE LETTERS |  |  |  |  |  |
| MODEL NO. | PRICE | LEGEND | MODEL NO. | PRICE | LEGEND |
| OMPBD7-34BE101 | \$4 | AUTO | OMPBD7-34BE163 | \$4 | OFF |
| OMPBD7-34BE107 | 4 | CLOSE | OMPBD7-34BE166 | 4 | ON |
| OMPBD7-34BE110 | 4 | DOWN | OMPBD7-34BE170 | 4 | OPEN |
| OMPBD7-34BE113 | 4 | FAULT | OMPBD7-34BE188 | 4 | REVERSE |
| OMPBD7-34BE114 | 4 | FAST | OMPBD7-34BE193 | 4 | RUN |
| OMPBD7-34BE120 | 4 | FORWARD | OMPBD7-34BE201 | 4 | SLOW |
| OMPBD7-34BE126 | 4 | HAND | OMPBD7-34BE208 | 4 | START |
| OMPBD7-34BE129 | 4 | HIGH | OMPBD7-34BE212 | 4 | STOP |
| OMPBD7-34BE148 | 4 | LOW | OMPBD7-34BE223 | 4 | UP |

## TNEW SPECIFICATIONS FOR SERIES OMPBD7- HEAVY

 DUTY/OIL TIGHT


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## Back-of-Panc Components ${ }^{1}$

DESCRIPTION
PLASTIC (OMPBD7P)
METAL (OMPBD7M)

## ELEGTRIGAL RATINGS

| Standard Contact Block Ratings | A600, Q600,600 Vac,AC15, DC 13 to EN 60947-5-1 and UL 508, 17V, 5 mA min |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Low Voltage Contact Block Ratings ${ }^{4}$ | $5 \mathrm{~V}, 1 \mathrm{~mA}$ DC min. <br> C300, R150, AC 15, DC 13 to EN 60947-5-1 and UL 508 |  |  |  |
| LED Module Ratings | Nominal Voltage | Range | Current Draw | Frequency |
|  | 24 Vac | 0... 29 Vac | 31 mA | $50 / 60 \mathrm{~Hz}$ |
|  | 24 Vdc | 10... 30 Vdc | 24 mA | DC |
|  | 120 Vac | 70... 132 Vac | 25 mA | $50 / 60 \mathrm{~Hz}$ |
|  | 240 Vac | 180... 264 Vac | 22 mA | $50 / 60 \mathrm{~Hz}$ |
| Thermal Current | 10 A max enclosed ( $40^{\circ} \mathrm{C}$ ambient) to UL 508, EN 60947-5-1 |  |  |  |
| Wire Capacity Screw terminal ${ }^{5}$ | [AWG] \#18...12 AWG (0.75...2.5 mm²) Max (2) \#14 AWG or (1) \#12 AWG |  |  |  |
| Spring-clamp terminal | [AWG] \#18...14 AWG (0.75...1.5 mm) |  |  |  |
| Recommended Tightening Torque on Screw Terminals | [N] $0.7 \ldots 0.9 \mathrm{~N} \cdot \mathrm{~m}(6 . . .8 \mathrm{lb}-\mathrm{in})$ |  |  |  |
| Insulation Voltage | [Ui] <br> $U_{i}=690 \mathrm{~V}$ (screw terminal) $\mathrm{Ui}=300 \mathrm{~V}$ (screwless terminal) |  |  |  |
| Dielectric Strength (Min) | [V] 2500 V for one minute |  |  |  |
| External Short Circuit Protection Standard blocks Low voltage contact blocks | 10 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4) <br> 6 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4) |  |  |  |
| Electrical Shock Protection | Finger-safe conforming to IP2X |  |  |  |
| MECHANICAL RATINGS |  |  |  |  |
| Vibration (assembled to panel) | [G] $10 . .2000 \mathrm{~Hz}, 1.52 \mathrm{~mm}$ displacement (peak-to-peak) max/10 G max 6 hr |  |  |  |
| Shock | [G] Tested at $1 / 2$ cycle sine wave for 11 ms and no damage at 100 G max |  |  |  |
| Contact durability per EN 60947-5-1 (Annex C) | 10,000,000 cycles |  |  |  |
| Contact OZ peration | NO Slow double make and break |  |  |  |
|  | NC Slow double make and break - positive opening |  |  |  |
|  | NOEM Double break / double make / early make |  |  |  |
|  | NCLB Double break / double make, late break - positive opening |  |  |  |
|  | NCEB Double break / double make, early break - positive opening |  |  |  |
| Push Button Travel to Change Electrical State | NC and NOEM 1.5 mm (0.060 in) |  |  |  |
|  | NO and NCLB $\quad 2.5 \mathrm{~mm}$ (0.1 in) |  |  |  |
| Operating Forces (Typical) | [N] $3.4 \mathrm{~N}:$ each single circuit contact block <br> $5 . . .6 .5 \mathrm{~N}$ : each dual circuit contact block |  |  |  |

## Notes:

1 Performance data given in this publication is provided only as a guide for the user in determining suitability and do not constitute a performance warranty of any kind. Such data may represent the results of accelerated testing at elevated stress levels, and the user is responsible for correlating the data to actual application requirements. ALL WARRANTIES AS TO ACTUAL PERFORMANCE, WHETHER EXPRESS OR IMPLIED, ARE EXPRESSLY DISCLAIMED.
4 Low voltage contacts are recommended for applications below $17 \mathrm{~V}, 5 \mathrm{~mA}$.
5 Wires less than \#18 (0.75 mm2) may not hold in terminal securely.


[^0]:    * Insert number for color selection, $\mathbf{2}=$ black, $\mathbf{3}=$ green, $\mathbf{4}=$ red, $\mathbf{5}=$ yellow, $\mathbf{6}=$ blue, $\mathbf{9}=$ no caps for inscription caps on flush models only.

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    2 Momentary mushroom operators are IP65, multi-function operators have no Type 13 rating. Plastic operators with keys have no Type $4 X$ rating.
    3 Operating temperatures below $0^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right)$ are based on the absence of freezing moisture and liquids, UL recognized to $55^{\circ} \mathrm{C}\left(131^{\circ} \mathrm{F}\right)$ -
    incandescent module, $\max 40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$.

