

PBM Pendant Pushbutton Stations

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2040

Instructions

PBM Enclosures

PBM Pendant Station Enclosures are high impact structural thermoplastic with molded N.P.T. conduit entrances — 3/4" N.P.T. for ME-2 & ME-4 Enclosures and 1" N.P.T. for ME-6, ME-8 & ME-10 Enclosures.

External strain relief cable can be secured to two projections at the top of enclosures have 3/8" square holes for cable termination.

Provision for internal strain relief cable is included for customers purchasing pendant control cable with center strand steel core as cable support.

A #8-32 (Green) binding head screw is included for terminating the grounding conductor.

The rear cover is attached to the front of the enclosure with self-retention screws threaded into metal inserts. A housing seal provides NEMA 4X Type construction when NEMA 4X control elements are required.

All of the face holes in the enclosure are 0.880" (22.4mm) diameter to accommodate standard 22mm oil-

tight pushbutton inserts in the "paired" hole portion of the enclosures, spacing is 2" (51mm) to facilitate use of standard attachments such as mechanical interlock, maintained contact, etc. Each detented area for oil-tight elements will permit the installation of 2" x 2" square (51mm square) nameplates which can be engraved for special applications.

Spacing of mounting holes is such that holes can be machined to larger diameter to permit mounting 30mm oil-tight pushbutton elements when required.

Control Elements

The pictures in Figure 1 show a typical wiring arrangement using standard one-speed pushbuttons (2 motions, 4 pushbuttons) and a 2-position selector switch ("Off-On") mounted in a 4 button (2 motion) enclosure. Connections are made to the contact blocks on the sides which simplifies the wiring from side-to-side of enclosures to the cross-connections between "Up-Down" and "For-Rev" pushbuttons.

Control Components

Main Wiring of the pushbutton station is shown in Figure 2 and schematic wiring of this typical pendant station is shown in Figure 3.

The 2-position selector switch mounted in the top hole of the enclosure is pictured in Figure 4 and a standard one-speed pushbutton used for "Up", "Down", "Forward" and "Reverse" is shown in Figure 5.

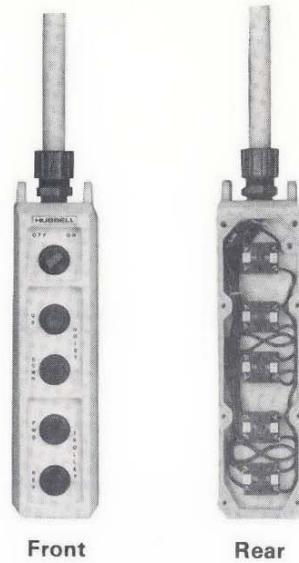
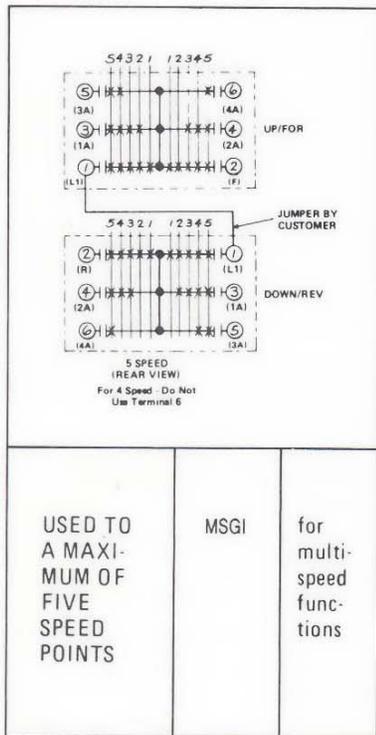
Other standard 22mm oil-tight pushbutton elements in stock but not pictured here include:

- Two speed pushbuttons (early make normally open, normally open contacts).
- Mushroom head pushbuttons, one-speed.
- Mechanically Interlock Attachment.
- 120 volt, 60-hertz neon pilot lights.
- 120 volt AC or DC resistor type pilot lights.

Ratings of contacts in selector switch and pushbutton elements are in accordance with NEMA Specifications for control contacts as shown in the chart below.

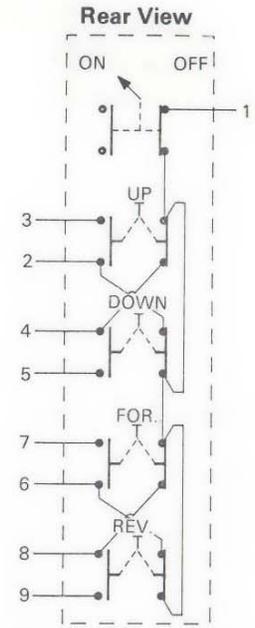
STANDARD CONTACT BLOCK RATINGS (Heavy Duty)							
Meet or exceed NEMA Rating A600, A300 and B300 for ac, and P300 for dc							
Description	V ac 50 or 60 Hz				V dc		
	120	240	480	600	24/28	125	250
Make & Emerg. Interrupting Capacity.	60.0	30.0	15.0	12.0	5.7	1.1	0.55
Normal Load Break.	6.0	3.0	1.5	1.2	5.7	1.1	0.55
Continuous Amperes.	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Volt-amperes —							
Make & Emerg. Inter. Cap.	7200	7200	7200	7200	138	138	138
Normal Load Break.	720	720	720	720	138	138	138



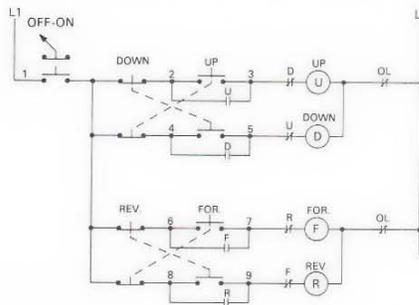


Front Rear

Wired Pendant Station Figure 1



Wired Pendant Station Figure 2



Typical Schematic Diagram Figure 3



Selector Switch Figure 4



Pushbutton Insert Figure 5

