

REVISIONS		
REV.	DESCRIPTION	DATE

E5-PBR Series Operator Panels

Control voltage (24VDC) to this panel is supplied from the Motor Control Panel (MCP). Its operation is entirely dependant on the properly installation of the MCP and the interconnecting wiring between those two.

This panel is equipped with a maintained, twist to release emergency stop operator. It must be released to commission the system further.

Control power is applied to the maintained keyswitch. When in the ON position it supplies power to the safety relay system in the MCP and illuminates the ON indicator.

Providing all aspects of the safety system are judged to be good, the amber RESET indicator / operator will be illuminated.

Depressing the RESET operator will illuminated the yellow READY indicator and the RESET indicator will extinguish. The MCP will then be fully energized, providing line power to the reversing contactor(s) and control voltage to the motor's limit and other safety switches, if present in this system.

Within the MCP, control power is routed through an auxilliary contact of the manual motor protector (MMP) which disruptes all control voltage to that motor should an overcurrent to that motor be detected.

Control voltage voltage may be further routed through:
A) Over-speed brake device, normally-closed auxilliary contact
B) Motor thermostat devices, wired in series through multiple motors

Control voltage is fed to through both the UP and DOWN over-travel normally-closed limit switches, subsequently feeding both the UP and DOWN normally closed limit switches.

The return from the UP limit switch is connected to the lamp and switch contact of the illuminated blue UP pushbutton.

The return from the DOWN limit switch is connected to the lamp and switch contact of the illuminated green DOWN pushbutton.

Illumination of these operators indicates that the limit switches are within their proper range and the hoist may be operated in that direction. Their limit position has been achieved when their indicator is extinguished.

Note that if neither UP nor DOWN indicator is illuminated, a fault condition exists that must be rectified by the installing contractor:

- A) MMP auxilliary contact at the MCP
- B) Over-speed brake device
- C) Motor thermostat, motor disconnected in a multiple motor installation
- D) Over-travel limit switch trip

This series of panels include hard-wired handheld pendant operation. A handheld pendant may be plugged into one of two hoist control channel receptacles. When operated from the pendant, the panel UP and DOWN indicators continue to indicate their limit switch status, but they will NOT operate either hoist to ensure exclusive control for safety reasons.

Installation note:

Should a hoist respond in a direction opposite of the operated pushbutton, motor phase rotation must be reversed at the MCP by the installing contractor without proceeding any further.



CONTRACT NO: E5-PB		Rigging Innovators, Inc. San Antonio, Texas		
CATALOG: E5-PBR2				
DRAWN BY: CADD	08/04/2011	TITLE: Operator Control Panel (2) Hoist Channels - Remote Pendant Assembly View		
CHECKED BY:		SIZE A3	DATE 08/04/2011	DRAWING NO: E5-PBR2
DESIGNED BY:		SCALE: 1:4		REV. -
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