

Bettis PBM (Push Button Module)

Remote and Local Control



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Section 1: Introduction

The Bettis™ Push Button Module (PBM) is a field-mounted, explosion-proof control station engineered to provide local or remote open/close/stop control of electric actuators. Installed at a convenient operating location, the PBM enables safe actuator operation without direct access to the actuator enclosure.

Designed and manufactured to Emerson™ quality standards, the PBM delivers reliable performance in harsh industrial and hazardous environments, combining a rugged enclosure with clear operator interfaces and visual status indication.

1.1 Key Benefits

- Provides local and remote actuator control from a safer, accessible location
- Intuitive operator interface with momentary push buttons and LED indication
- Suitable for hazardous and non-hazardous area installations
- Heavy-duty, corrosion-resistant enclosure available in casting aluminum and stainless steel for long service life
- Multiple configurations available to meet application and certification requirements

1.2 Typical Applications

- Remote valve operation in hazardous or restricted locations.
- Industrial process systems with limited actuator accessibility.
- Oil and gas, chemical processing, power generation and water/wastewater facilities.

1.3 Functional Description

The Bettis PBM Push Button Module provides direct control of actuator open, close and stop functions via front-mounted push buttons. Depending on configuration, the PBM also includes a 3-position Local/Off/Remote selector switch to define the control source.

Integrated LED indicators provide clear visual feedback of actuator status and valve position. The PBM interfaces directly with electric actuator control terminals and is intended for use exclusively with electric actuators.

Section 2: Configuration

The PBM is available in several standard configurations. Actual availability is dependent on actuator model and certification requirements.

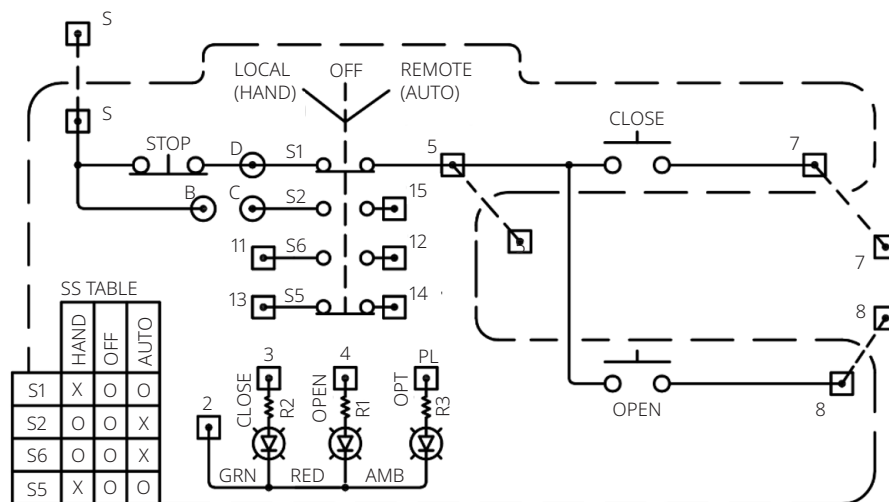
Table 1. PBM Configurations

Part Number	Number of Push Buttons	Number of LEDs	LED Indication			3-Position Selector
			Open	Close	Option	
84457-2H	3	2	Red	Green	-	Yes
84371-2H	3	3	Red	Green	Amber	Yes
84457-2	3	2	Red	Green	-	No
84371-2	3	3	Red	Green	Amber	No
84457-2P	3	-	-	-	-	No
84371-2HP	3	-	-	-	-	Yes
84563-2H	3	2	Green	Red	-	Yes
84565-2H	3	3	Green	Red	Amber	Yes
84566-2	3	2	Green	Red	-	No
84564-2	3	3	Green	Red	-	No

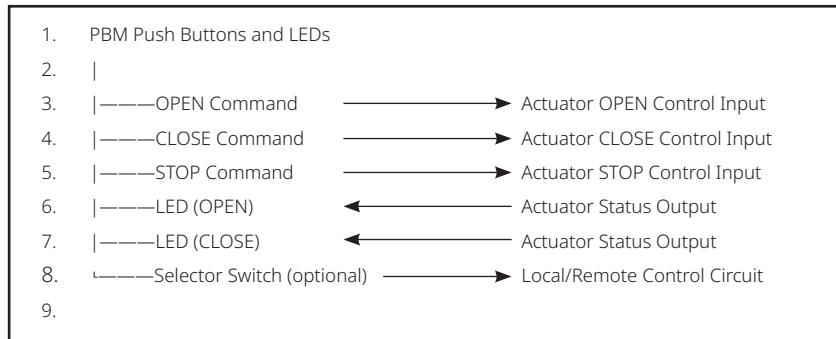
2.1 Typical Wiring Overview

Note: The following is a functional reference only. Always refer to the actuator Installation, Operation and Maintenance (IOM) manual and project-specific wiring drawings for installation.

Figure 1. Wiring Diagram



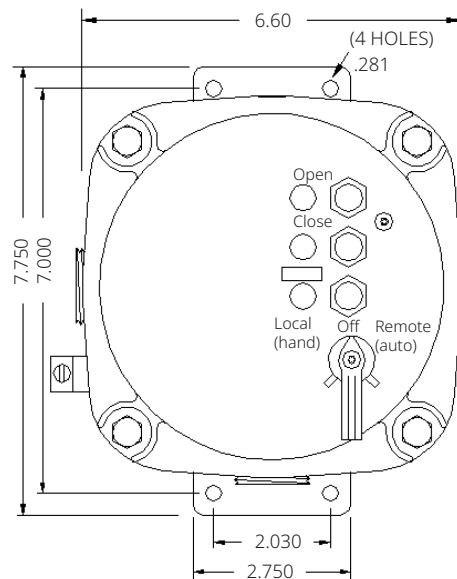
PB's and SS indicators (within dashed lines) are located in remote-mounted PBM. Connect PBM terminal points S, 2, 3, 4, 5, 7 and 8 to terminal points in actuator.

Figure 2. Connection Between PBM and Actuator

- Electrical Characteristics
 - Electrical Rating: 115 V AC, single-phase, 10 A, 50/60 Hz
- Environmental and Enclosure Ratings
 - Enclosure Construction:
 - Cast aluminum
 - Cast stainless steel (option)
 - Ingress Protection:
 - IP66
 - Nema 4X
 - Hazardous Area Certifications (model dependent):
 - FM16US03325X
 - Class I, II, III, Division 1, Groups B, C, D, E, F, G
 - IECEx SIR 12.0031X
 - Ex d IIB + H2 T6 Gb
 - Ex tb IIIC T85°C Db IP66
 - Ambient Temperature Rating: Up to 60 °C

Section 3: Dimensions and Installation

Figure 3. Dimensions (in.)



3.1 Installation

- Wall-mounted, remote installation near the point of operation
- Three (3) 1-inch NPT conduit entries
- Captive stainless-steel cover bolts
- Internal and external grounding provisions

Installation must be performed in accordance with applicable electrical codes and electrical actuator documentation.

3.2 Compliance and Safety

The PBM Push Button Module is designed to comply with applicable international electrical and hazardous-area standards. Proper installation, conduit sealing and grounding are required to maintain enclosure integrity and certification.

3.3 Ordering Information and Support

For configuration selection, certifications, part numbers and compatibility with specific Bettis electric actuators, contact your authorized Emerson representative.

www.emerson.com/bettis

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