

Batching Switch Option Installation Instructions

PNs 19368, 19369

The batching switch option, PN 19369, comes as a complete unit in an FRP enclosure, with legend plate, locking stop switch (mushroom button), and a run/start/abort 3-way switch.

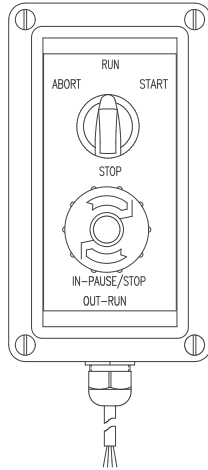


Figure 1. Batching Switch

The uncased switches (PN 19368) can be installed in the front panel of an enclosure by drilling 7/8" holes for the two switches. For models that have insufficient room for switches on the enclosure, a special FRP case is available for mounting the switch unit remotely. The remote mounting kit includes case, 5 feet of 18 gauge cable, nylon ring, and cord grip for sealing the cable connection to the indicator. Either mounting method is waterproof and maintains a NEMA 4X rating.

Both switches are wired into the indicator's digital I/O terminal strip as shown in Figure 2. Each switch uses a separate digital input.

Once cables and switches have been connected to the indicator, use the setup switch to place the indicator in setup mode. Use the DIG I/O menu (Figure 3 on page 2), to configure digital input and output functions using Bit 1 to set up BATSTRT and Bit 2 to set up BATRUN.

When configuration is complete, exit setup mode. Initialize the batch by turning the 3-way switch to *ABORT*, then unlock the STOP button (the STOP button must be in the *OUT* position to allow the batch process to run). The batching switch is now ready to use.

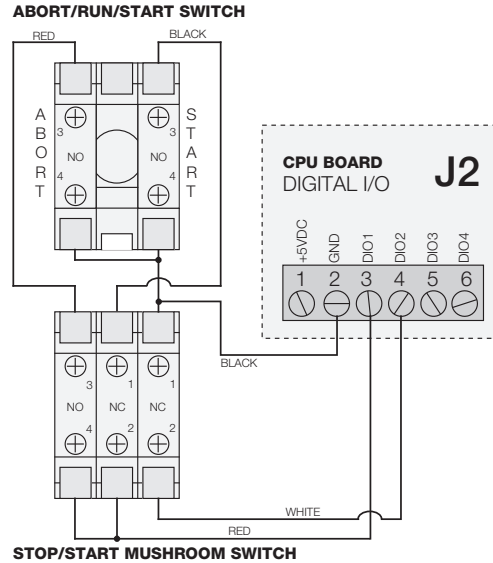


Figure 2. Batching Switch Wiring Diagram, 920i Example



Warning

If no digital input is assigned to *BATR*UN, batching proceeds as if *BATR*UN were always on: the batch will start when the 3-way switch is turned to *RUN*, but the *STOP* mushroom button will not function.

To begin a batch process, turn the 3-way switch to *START* momentarily. If the *STOP* button is pushed during the batch process, the process halts and the button locks in the *IN* position.

The *START* switch is ignored while the *STOP* button is locked in the *IN* position. The *STOP* button must be turned counterclockwise to unlock it, then released into the *OUT* position to enable the 3-way switch.

To restart an interrupted batch from the step where it left off, do the following:

1. Unlock *STOP* button (*OUT* position)
2. Turn 3-way switch to *START*

To restart an interrupted batch from the first batch step, do the following:

1. Turn 3-way switch to *ABORT*
2. Unlock *STOP* button (*OUT* position)
3. Turn 3-way switch to *START*

NOTE: Use this procedure (or the *BATRESET* serial command) to initialize the new batch routine following any changes to the setpoint configuration.

Configuring the Batching Switch Option

The Digital I/O menu shown below is used to assign functions to digital inputs and outputs. Slot 0 represents the four I/O bits available on the CPU board (920i connector J2, 820i connector J5, 720i connector J6). Use Bit 1 to set up BATSTRT and Bit 2 to set up BATRUN.

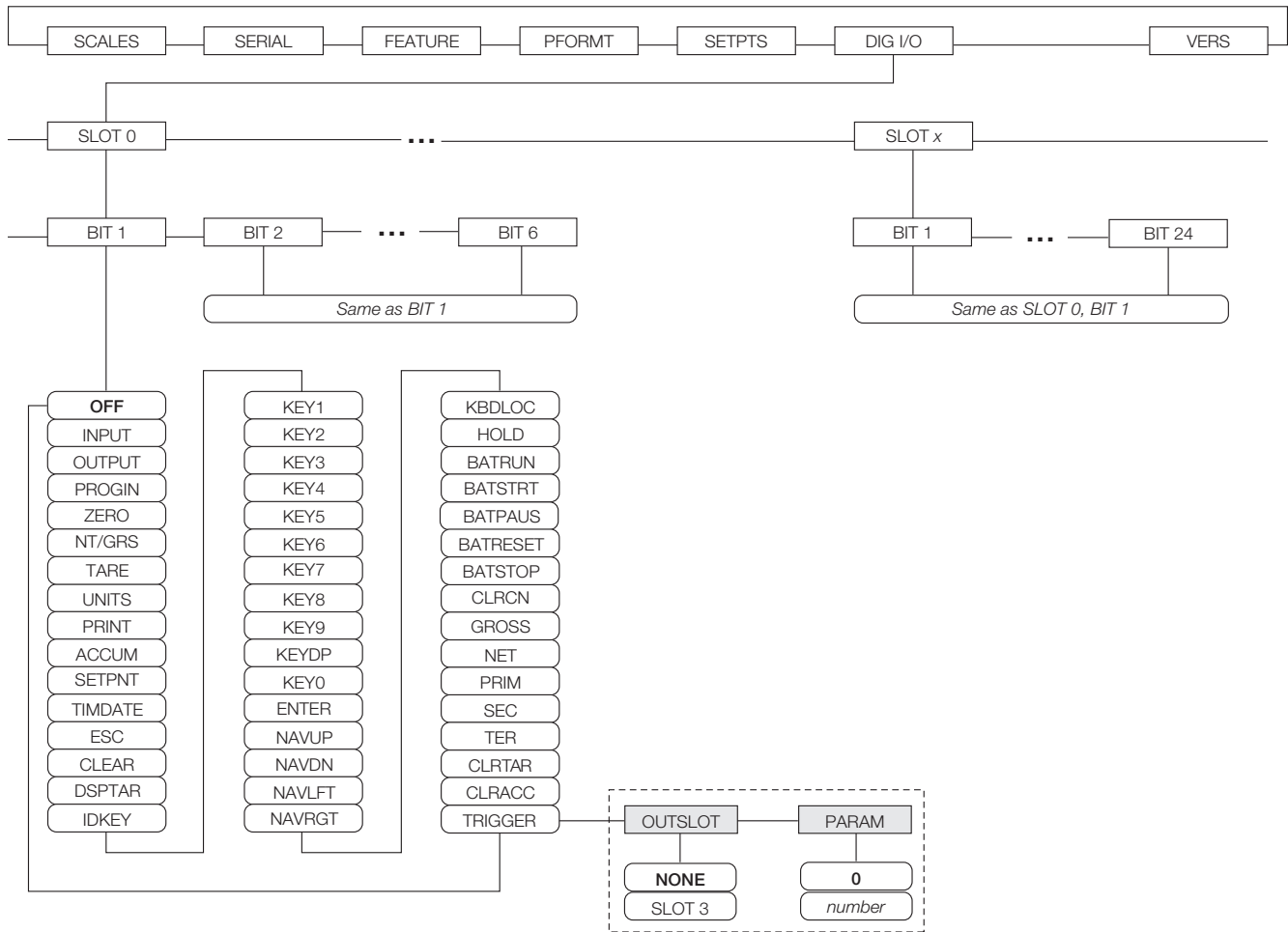


Figure 3. 920i DIG I/O Menu

See the 920i Installation Manual (PN 67887), 820i Installation Manual (PN 93018), or 720i Installation Manual, (PN 103121) for more information.