

# SSB1002/SSB1003 SERIES PRODUCT DESCRIPTION

CTC modular switch box solutions allow for the monitoring of remotely mounted vibration sensors, which would otherwise be restricted to human access due to safety considerations.

The **SSB1002/SSB1003 Series** 12, 24, 36, or 48 Channel fiberglass modular switch box is used to convert the two-conductor input wiring of up to 48 remotely installed accelerometers, piezo velocity sensors, tachometers, proximity probes, and/or temperature probes to a switched BNC and a switched two-pin MIL spec connector for data collection. Input wiring from each sensor is connected to the outputs via quick-connect or screw terminal blocks. Each terminal block includes inputs for signal/power, common and shield. The shield drain wire is earth grounded via a ground stud that is mounted to the side of the fiberglass enclosure.

Additional switch box modules can be installed or removed after initial manufacturing and on-site installation, using the quick-release DIN rail clip. Each new module features a detachable plug for easy cable installation. If continuous output is desired, select the SSB1003 Series. On all continuous output modules, a quick disconnect T-plug is available to easily connect and disconnect the input wiring.

Rated for NEMA 4X (IP66), the SSB1002/SSB1003 Series can withstand harsh environments including temperatures ranging from -58 to 180 °F (-50 to 82 °C). The box is also resistant to hose directed fluid and corrosion. A snap latch is installed on the door allowing the box to be sealed from the elements when not in use.

## CABLE INPUT ORDERING OPTIONS



**A. User Defined**



**B. Conduit Fittings**



**C. Nylon Cord Grips**



# SWITCH BOXES VS. MODULAR SWITCH BOXES

## FEATURES COMMON TO BOTH ENCLOSURE OPTIONS

- ▶ Both provide a switched output to either a BNC jack or 2 pin MIL-Style connector
- ▶ The single output box will accommodate up to 12, 24, 36 or 48 single axis channels while the Dual Output box will accept up to 8, 16, 24 or 32 dual output channels, for a total of 16, 32, 48 or 68 channels of measurement
- ▶ Continuous output options available
- ▶ Both enclosures can be easily mounted on a variety of surfaces
- ▶ Both accept input from accelerometers, proximity probes, tachometers, and temperature probes
- ▶ Both enclosures offer quick release input terminal blocks
- ▶ Both are available in two options: fiberglass or stainless steel enclosure

## ADVANTAGES OF MODULAR SWITCH BOXES

*While the cost is slightly higher for the initial purchase of a partially populated modular box versus a similar standard box, Modular Switch Boxes offer increased flexibility:*

- ▶ The convenience of only having to purchase CTC parts JB907-1A for single output or JB930-1A for dual output boxes when adding additional channels
- ▶ No need to send the enclosure back to the factory to have the switch and board modified for the additional channels
- ▶ The flexibility of being able to move the module to a different enclosure should your needs change

