47102

ZP3 Series, ZP3AB-SCB-R Control Bus Receiver

System control at remote locations

The ZP3AB-SCB-R provides a remote interface on the system control bus wiring enabling repeat indication and system control, at locations remote from the main panel position. Usually installed within auxiliary equipment cabinets, the interface is compatible with all ZP3AB optional facility boards, including the RL8 relay module, the MIP8 input card and the OP24 open collector output card.

The interface can be positioned anywhere on the system bus wiring which it shares with remote display units (RDUs). Driven from within the main control panel by an optional ZP2AB-SCB-D driver board, a combination of up to 32 or 64 RDUs and SCB-Rs can be controlled dependant upon the ZP3 panel software.

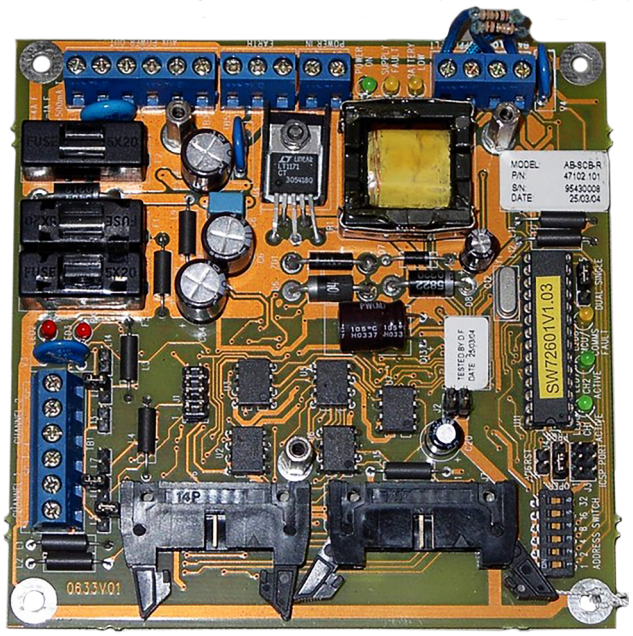
RS485 protocol

Serial communication between the main panel and the remote interface units operates by RS485 protocol over twisted screened pair wiring. Total cable length, regardless of the number of remote units connected to a main panel, can be up to a maximum of 2 kilometres.

Installation flexibility

Designed to provide installation flexibility, system wiring can be daisy chained or teed off with spurs. Wiring should be completed in data quality twisted screened pair cable with a minimum core diametre of 0.5 mm2. Jumper terminating switches are provided on both driver and interface, which are set at the system commissioning stage.

The ZP3AB-SCB-D and ZP3AB-SCB-R serial control bus driver and interface are part of the range of optional facility boards which can be added cost effectively to any ZP3 system, in order to provide extra facilities, which may not be a requirement of every system.



Details

- Up to 32 or 64 remote serial interfaces - dependant upon control panel software
- Shares common wiring with remote display units
- RS485 communication protocol
- Flexible wiring connection

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Technical specifications

General

Compatibility	ZP3 control panels, all ZP3 optional facility boards
Communication ports	RS485

Electrical

Power supply type	24 VDC
Current consumption	40 mA

Physical

Physical dimensions	120 x 120 mm (H x W)
Net weight	166 g
Mounting type	PCB mount

Environmental

Operating temperature	-10 to +60ºC
Relative humidity	10 to 90% noncondensing

Mounting

	4 x 8M fixing holes

Wiring

	Two cores twisted screened pair max cable length 2km for all remote units connected to a ZP3 panel

Max per ZP3AB-SCB-D bus driver

	32/64 (dependant upon control panel software) which can be any combination of ZP3AB-SCB-R interfaces and/or ZP3-RDUB1 remote display units

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