



INSTRUCTION MANUAL

SWITCHING BOX WIRING

Model RT-VWSB

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E10163-19012009

RT-VWSB WIRING INSTRUCTION (10 or 20 sensors)

| RT-VWSB with 20 sensors | | | | RT-VWSB with 10 sensors | | | |
|-------------------------|--------|---------------|------------------------------|------------------------------|---------------|--------|----------|
| PC board | Signal | Sensor number | Sensor identification number | Sensor identification number | Sensor number | Signal | PC board |
| 11A | a | 11 | | | 10 | d | 10D |
| 11B | b | | | | | c | 10C |
| 11C | c | | | | | b | 10B |
| 11D | d | | | | | a | 10A |
| Shield | GND | | | | | GND | Shield |
| 12A | a | 12 | | | 9 | d | 9D |
| 12B | b | | | | | c | 9C |
| 12C | c | | | | | b | 9B |
| 12D | d | | | | | a | 9A |
| 13A | a | 13 | | | 8 | d | 8D |
| 13B | b | | | | | c | 8C |
| 13C | c | | | | | b | 8B |
| 13D | d | | | | | a | 8A |
| Shield | GND | | | | | GND | Shield |
| 14A | a | 14 | | | 7 | d | 7D |
| 14B | b | | | | | c | 7C |
| 14C | c | | | | | b | 7B |
| 14D | d | | | | | a | 7A |
| 15A | a | 15 | | | 6 | d | 6D |
| 15B | b | | | | | c | 6C |
| 15C | c | | | | | b | 6B |
| 15D | d | | | | | a | 6A |
| Shield | GND | | | | | GND | Shield |
| 16A | a | 16 | | | 5 | d | 5D |
| 16B | b | | | | | c | 5C |
| 16C | c | | | | | b | 5B |
| 16D | d | | | | | a | 5A |
| 17A | a | 17 | | | 4 | d | 4D |
| 17B | b | | | | | c | 4C |
| 17C | c | | | | | b | 4B |
| 17D | d | | | | | a | 4A |
| Shield | GND | | | | | GND | Shield |
| 18A | a | 18 | | | 3 | d | 3D |
| 18B | b | | | | | c | 3C |
| 18C | c | | | | | b | 3B |
| 18D | d | | | | | a | 3A |
| 19A | a | 19 | | | 2 | d | 2D |
| 19B | b | | | | | c | 2C |
| 19C | c | | | | | b | 2B |
| 19D | d | | | | | a | 2A |
| Shield | GND | | | | | GND | Shield |
| 20A | a | 20 | | | 1 | d | 1D |
| 20B | b | | | | | c | 1C |
| 20C | c | | | | | b | 1B |
| 20D | d | | | | | a | 1A |

| Signal | | Standard vibrating wire sensor | | Other Type of Sensor |
|--------|-------|--------------------------------|--------------------------|--|
| a | Red | C + | Positive coil wire | Cf. Calibration Data Sheet of the sensor |
| b | Black | C - | Negative coil wire | |
| c | White | T + | Positive thermistor wire | |
| d | Green | T - | Negative thermistor wire | |

Note: The above color code stands for an IRC-41 cable. Please check gage's instruction manual or calibration data sheet for proper color code when using other type of cable.

Always ground switching box using ground connector.

RT-VWSB WIRING INSTRUCTION (8 or 16 sensors)

| RT-VWSB with 16 sensors | | | | | | | |
|-------------------------|--------|---------------|------------------------------|------------------------------|---------------|--------|---------|
| | | | | RT-VWSB with 8 sensors | | | |
| RTX 248 | Signal | Sensor number | Sensor identification number | Sensor identification number | Sensor number | Signal | RTX 248 |
| 17AH | a | 9 | | | 8 | d | 16DL |
| 17BL | b | | | | | c | 16CH |
| 18CH | c | | | | | b | 15BL |
| 18DL | d | | | | | a | 15AH |
| Shield | GND | 10 | | | 7 | GND | Shield |
| 19AH | a | | | | | d | 14DL |
| 19BL | b | | | | | c | 14CH |
| 20CH | c | | | | | b | 13BL |
| 20DL | d | 11 | | | 6 | a | 13AH |
| 21AH | a | | | | | d | 12DL |
| 21BL | b | | | | | c | 12CH |
| 22CH | c | | | | | b | 11BL |
| 22DL | d | 12 | | | 5 | a | 11AH |
| Shield | GND | | | | | GND | Shield |
| 23AH | a | | | | | d | 10DL |
| 23BL | b | | | | | c | 10CH |
| 24CH | c | 13 | | | 4 | b | 9BL |
| 24DL | d | | | | | a | 9AH |
| 25AH | a | | | | | d | 8DL |
| 25BL | b | | | | | c | 8CH |
| 26CH | c | 14 | | | 3 | b | 7BL |
| 26DL | d | | | | | a | 7AH |
| Shield | GND | | | | | GND | Shield |
| 27AH | a | | | | | d | 6DL |
| 27BL | b | 15 | | | 2 | c | 6CH |
| 28CH | c | | | | | b | 5BL |
| 28DL | d | | | | | a | 5AH |
| 29AH | a | | | | | d | 4DL |
| 29BL | b | 16 | | | 1 | c | 4CH |
| 30CH | c | | | | | b | 3BL |
| 30DL | d | | | | | a | 3AH |
| Shield | GND | | | | | GND | Shield |
| 31AH | a | 16 | | | 1 | d | 2DL |
| 31BL | b | | | | | c | 2CH |
| 32CH | c | | | | | b | 1BL |
| 32DL | d | | | | | a | 1AH |

| Signal | | Standard vibrating wire sensor | | Other Type of Sensor |
|--------|-------|--------------------------------|--------------------------|--|
| a | Red | C + | Positive coil wire | Cf. Calibration Data Sheet of the sensor |
| b | Black | C - | Negative coil wire | |
| c | White | T + | Positive thermistor wire | |
| d | Green | T - | Negative thermistor wire | |

Note: The above color code stands for an IRC-41 cable. Please check gage's instruction manual or calibration data sheet for proper color code when using other type of cable.

Always ground switching box using ground connector.