

# WATANABE Product List for Signal converters

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| No. | Series                            | Model                             | Description                                | Input                     | Output                    | Power supply | Size            |
|-----|-----------------------------------|-----------------------------------|--|---------------------------|---------------------------|--------------|-----------------|
| 1   | WSPF series<br>(New Plug-in type) | <a href="#">WSPF-IS</a>           | Isolator                                   | DC Voltage / Current      | DC Voltage / Current      | AC / DC      | 84x23x106.5mm   |
| 2   |                                   | <a href="#">WSPF-DS</a>           | Isolator                                   |                           | DC Voltage / Current      |              | 84x23x106.5mm   |
| 3   |                                   | <a href="#">WSPF-DSW</a>          | 2-output Isolator                          |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 4   |                                   | <a href="#">WSPF-DE</a>           | High-speed Isolator                        |                           | DC Voltage / Current      |              | 84x23x106.5mm   |
| 5   |                                   | <a href="#">WSPF-DEW</a>          | 2-output high-speed Isolator               |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 6   |                                   | <a href="#">WSPF-THS</a>          | Thermocouple converter                     | Thermocouple              | DC Voltage / Current      |              | 84x23x106.5mm   |
| 7   |                                   | <a href="#">WSPF-THW</a>          | 2-output Thermocouple converter            |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 8   |                                   | <a href="#">WSPF-RTS</a>          | RTD converter                              | RTD                       | DC Voltage / Current      |              | 84x23x106.5mm   |
| 9   |                                   | <a href="#">WSPF-RTW</a>          | 2-output RTD converter                     |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 10  |                                   | <a href="#">WSPF-MS</a>           | Potentiometer converter                    | Potentiometer             | DC Voltage / Current      |              | 84x23x106.5mm   |
| 11  |                                   | <a href="#">WSPF-MSW</a>          | 2-output Potentiometer converter           |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 12  |                                   | <a href="#">WSPF-DBZ</a>          | Distributor (Current loop supply)          | DC Voltage / Current      | DC Voltage / Current      |              | 84x23x106.5mm   |
| 13  |                                   | <a href="#">WSPF-DBZW</a>         | 2-output Distributor (Current loop supply) |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 14  | WSP series<br>(Plug-in type)      | <a href="#">WSP-2DS</a>           | 2-channel Isolator                         | DC Voltage / Current x2ch | DC Voltage / Current x2ch | AC / DC      | 84x29.5x106.5mm |
| 15  |                                   | <a href="#">WSP-2NDS</a>          | 2-channel loop powered Isolator            | DC Voltage / Current x2ch | DC Voltage / Current x2ch | None         | 84x23x106.5mm   |
| 16  |                                   | <a href="#">WSP-AZ / EZ</a>       | AC converter                               | AC Voltage / Current      | DC Voltage / Current      | AC / DC      | 84x23x106.5mm   |
| 17  |                                   | <a href="#">WSP-ACW / EFW</a>     | 2-output AC converter                      |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 18  |                                   | <a href="#">WSP-CTA / CTE</a>     | CT converter                               | AC Current                | DC Voltage / Current      |              | 84x23x106.5mm   |
| 19  |                                   | <a href="#">WSP-CTAW / CTEW</a>   | 2-output CT converter                      | DC Voltage / Current x2ch | 84x29.5x106.5mm           |              |                 |
| 20  |                                   | <a href="#">WSP-PTA / PTE</a>     | PT converter                               | AC Voltage                | DC Voltage / Current      |              | 84x23x106.5mm   |
| 21  |                                   | <a href="#">WSP-PTAW / PTEW</a>   | 2-output PT converter                      |                           | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 22  |                                   | <a href="#">WSP-FZP</a>           | 2-output pulse Isolator(with sensor power) | Pulse / Frequency         | DC Voltage / Current x2ch |              | 84x29.5x106.5mm |
| 23  |                                   | <a href="#">WSP-FV</a>            | Pulse to DC converter                      |                           | DC Voltage / Current      |              | 84x23x106.5mm   |
| 24  |                                   | <a href="#">WSP-FVW</a>           | 2-output pulse to DC converter             | DC Voltage / Current x2ch | 84x29.5x106.5mm           |              |                 |
| 25  |                                   | <a href="#">WSP-VF</a>            | DC to pulse converter                      | DC Voltage / Current      | Pulse / Frequency         |              | 84x23x106.5mm   |
| 26  |                                   | <a href="#">WSP-HP</a>            | Alarm setter for 1-point setting           |                           | Relay                     |              | 84x23x106.5mm   |
| 27  | <a href="#">WSP-HL</a>            | Alarm setter for 2-point setting  |  |                           | 84x29.5x106.5mm           |              |                 |
| 28  | TZ series<br>(Compact type)       | <a href="#">TZ-1FA</a>            | Extremely small DC signal isolator         | DC Voltage / Current      | DC Voltage / Current      |              | AC              |
| 29  |                                   | <a href="#">TZ-5FA</a>            | Extremely small DC signal isolator         |                           |                           | DC           |                 |
| 30  |                                   | <a href="#">TZ-1XA</a>            | Isolator                                   |                           |                           | AC           |                 |
| 31  |                                   | <a href="#">TZ-5XA</a>            | Isolator                                   |                           |                           | DC           |                 |
| 32  |                                   | <a href="#">TZ-41</a>             | Loop powered isolator                      |                           |                           | None         |                 |
| 33  |                                   | <a href="#">TZ-1CA</a>            | Thermocouple temperatrue converter         | Thermocouple              |                           | AC           |                 |
| 34  |                                   | <a href="#">TZ-5CA</a>            | Thermocouple temperatrue converter         |                           |                           | DC           |                 |
| 35  |                                   | <a href="#">TZ-1AA</a>            | RTD temperatrue converter                  | RTD                       |                           | AC           |                 |
| 36  |                                   | <a href="#">TZ-5AA</a>            | RTD temperatrue converter                  |                           |                           | DC           |                 |
| 37  |                                   | <a href="#">TZ-1BA</a>            | Potentiometer converter                    | Potentiometer             |                           | AC           |                 |
| 38  |                                   | <a href="#">TZ-5BA</a>            | Potentiometer converter                    |                           |                           | DC           |                 |
| 39  |                                   | <a href="#">TZ-1DA</a>            | AC current converter(true RMS value)       | AC Voltage / Current      |                           | AC           |                 |
| 40  |                                   | <a href="#">TZ-5DA</a>            | AC current converter(true RMS value)       |                           |                           | DC           |                 |
| 41  |                                   | <a href="#">TZ-1EA</a>            | AC voltage converter (true RMS value)      |                           |                           | AC           |                 |
| 42  |                                   | <a href="#">TZ-5EA</a>            | AC voltage converter (true RMS value)      | DC                        |                           |              |                 |
| 43  | <a href="#">TZ-5LA</a>            | Distributor (Current loop supply) | DC   |                           |                           |              |                 |
| 44  | TH series<br>(Thin type)          | <a href="#">TH-2F/5F</a>          | Extremely small DC signal isolator         | DC Voltage / Current      | DC Voltage / Current      | AC / DC      | 103x12.5x115mm  |
| 45  |                                   | <a href="#">TH-2X/5X</a>          | Isolator                                   |                           |                           | AC / DC      |                 |
| 46  |                                   | <a href="#">TH-2M/5M</a>          | Universal isolator                         |                           |                           | AC / DC      |                 |
| 47  |                                   | <a href="#">TH-41</a>             | Loop powered isolator                      | None                      |                           |              |                 |
| 48  |                                   | <a href="#">TH-2C/5C</a>          | Thermocouple temperatrue converter         | Thermocouple              |                           | AC / DC      |                 |
| 49  |                                   | <a href="#">TH-2A/5A</a>          | RTD temperatrue converter                  | RTD                       |                           | AC / DC      |                 |
| 50  | <a href="#">TH-2B/5B</a>          | Potentiometer converter           | Potentiometer                              | AC / DC                   |                           |              |                 |