Dual-output Distributor (Current Loop Supply) **WSP-DBZW**



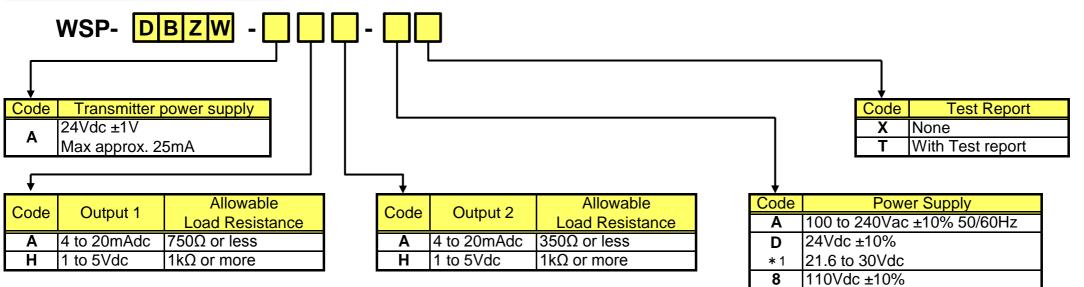
The plug-in distributor (Current loop supply) provides isolated 2 signal outputs, which can be used in combination with a transmitter.

It supplies DC power to a field transmitter, and converts 4-20mA signal transmitted to the suitable signal for input of monitoring and control equipment.

Features

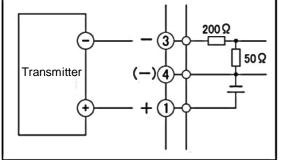
- ★ Fine Zero & span adjustment by 15 turn trimmer
- ★ Zero & span adjustment ±10% full scale
- ★ Safe design by dielectric strength of 3000Vac
- \star 5 years warranty, long life
- ★ CE approved
- ★ Can be used as Dual-output Isolator

Ordering code



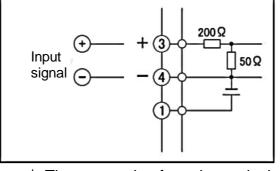
<Precautions for wiring>

Please note that when using as isolator, or when transmitter power supplies from the other, the terminal connection changes as below diagram.



★ Normal connection of distibuter

Specifications



★ The connection for using as isolator or when transmitter power supplies from the other

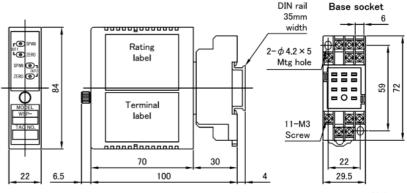
- 110Vdc ±10%
- ***1···**CE approval do not adapt when power supply is 21.6Vdc to 30Vdc.

| Accuracy ±0.11% FS (at 23°C) Accuracy ±0.1% FS (at 23°C) Response time Approx. 25ms (0 to 90%) Allowable load Current output First output : 15V or less of voltage drop between output Second output : 7V or less of voltage drop between output Load current 5mA or less Zero & span adjustment ±10% FS (15 turn trimmer) Transmitter power supply 24Vdc ±1V, max approx. 25mA Operating temperature -5 to +55°C Operating relative humidity 90% or less (Non-condensing) Temperature coefficient ±0.015% FS of span per °C Isolation Between input, output, and power supply Insulation resistance 100MΩ or more with 500Vdc megger Between input, output, and power supply terminal 3000Vac for 1 minute between power supply and input/output terminal, 2000Vac for 1 minute between input and output terminal Dielectric strength 3000Vac for 1 minute between input and output terminal Structure Plug-in (Body part and socket part) Connection M3 SEMS screw part of the base socket (Tightening torque 0.6N-m) Mounting DiN rail or wall surface Case color and material Nory, ABS resin, flame retardant grade UL94V-0 EMC directive EN61326-1, EN61010-1, EN IEC | Input Signal | 4-20mAdc (Transmitter signal) | | | |
|--|-----------------------------|--|--|--|--|
| Accuracy ±0.1% FS (at 23°C) Response time Approx. 25ms (0 to 90%) Allowable load Current output First output: 15V or less of voltage drop between output Second output: 7V or less of voltage drop between output Load current 5mA or less Zero & span adjustment ±10% FS (15 turn trimmer) Transmitter power supply 24Vdc ±1V, max approx. 25mA Operating temperature -5 to +55°C Operating relative humidity 90% or less (Non-condensing) Temperature coefficient ±0.015% FS of span per °C Isolation Between input, output, and power supply Insulation resistance 100MΩ or more with 500Vdc megger Between input, output, and power supply terminal Dielectric strength 3000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal 2000Vac for 1 minute between input and output terminal | | ι υ , | | | |
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| | EMC directive | | | | |
| Rated altitude 2000m or less | | Installation category : II, Pollution degree : 2 | | | |
| | Rated altitude | 2000m or less | | | |

Terminal connections

| | No | Symbol | | Description |
|------|----------|-------------|--------------|----------------------|
| | 1 | TRANSMITTER | + | Transmitter |
| 6 54 | 2 | OUTPUT-2 | + | No.2 Output |
| | 3 | TRANSMITTER | - | Transmitter |
| | 4 | COM | - | (Adjusting terminal) |
| | 5 | OUTPUT-2 | - | No.2 Output |
| | 6 | NC | | No connection |
| | 7 | OUTPUT-1 | + | No.1 Output |
| | 8 | NC | | No connection |
| 9 87 | 9 | OUTPUT-1 | - | No.1 Output |
| | 10 11 | POWER | U(+) V(-) | Power Supply |

Demensions



Unit:mm

* Specification is subject to change without notice

Watanabe Electric Industry Co. Ltd.