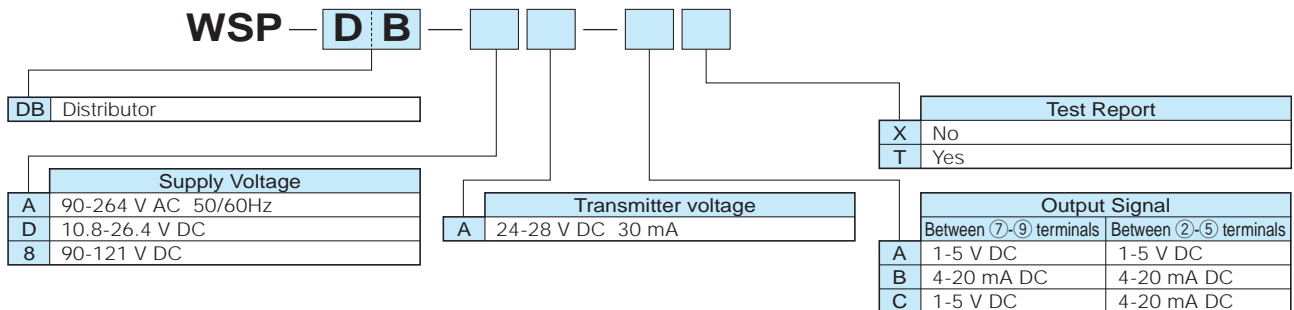# Distributor

This compact plug-in signal distributor can be employed in combination with 2-wire transmitter. This distributor not only supplies 24 V DC to a transmitter in a field, but also converts 4-20 mA (DC) signals originated from a transmitter into signals suitable for input to supervisory and control equipment.

Features

- Two pairs of output terminals equipped.
- This compact and tightly mountable isolator allows the user to downsize the system.
- Both AC flexible power supply and DC power supply are available.
- Shortened time of completion and high serviceability thanks to plug-in design

Model name

WSP — **D B** — ☐ ☐ — ☐ ☐

DB	Distributor

Supply Voltage	
A	90-264 V AC 50/60Hz
D	10.8-26.4 V DC
8	90-121 V DC

Transmitter voltage	
A	24-28 V DC 30 mA

Test Report	
X	No
T	Yes

Output Signal		
	Between ⑦-⑨ terminals	Between ②-⑤ terminals
A	1-5 V DC	1-5 V DC
B	4-20 mA DC	4-20 mA DC
C	1-5 V DC	4-20 mA DC

Specifications

Allowable load:	Depends on a transmitter to be connected.
Transmitter voltage:	24-28 V DC at 30 mA or less of short-circuit current
Influence of load variation:	Variation in the output voltage is less than 2%.
Operating temperature and humidity:	–5 to +55°C, 90% RH or less (without condensation)
Insulation resistance:	100 MΩ or more with a 500 V DC megger Between input/output and power source terminals
Dielectric strength:	2000 V AC for 1 minute Between input/output and power source terminals
Power consumption:	Approx. 3 VA (AC), approx. 40 mA (24 V DC)
Dimensions:	84(H)x29.5(W)x106.5(D)mm
Weight:	Approx. 150g
Structure:	Plug-in (consisting of main unit and socket part)
Connection part:	M3 SEMS screw part of the base socket
Material of terminal screw:	Chromated iron
Case color and material:	Ivory, heat-resistant ABS resin (94V-0)
Mounting:	DIN rail or wall surface
Dimensions:	Refer to Dimensional Drawing II

Terminal arrangement:
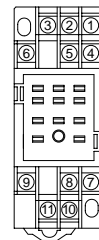
No.	Symbol		Description
1	Transmitter	+	Transmitter
2	OUTPUT-2	+	Output Signal-2
3	Transmitter	–	Transmitter
4	NC		No Connection
5	OUTPUT-2	–	Output Signal-2
6	NC		No Connection
7	OUTPUT-1	+	Output Signal-1
8	NC		No Connection
9	OUTPUT-1	+	Output Signal-1
10	POWER	U(+)	Power Supply
11	POWER	V(–)	