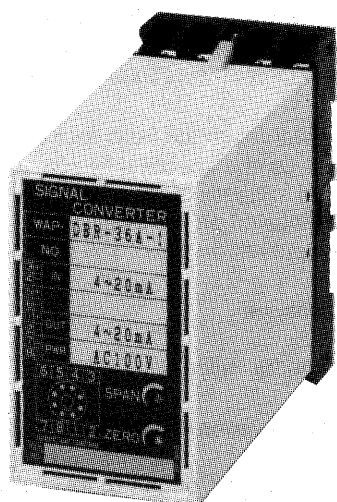


DISTRIBUTOR AND DISTRIBUTOR WITH EXTRACTION OF SQUARE ROOT (NON-ISOLATED) WVP-DB/DBA/DBR



50 (W) x 96 (H) x 125.5 (D) mm Approx. 400 g

These plug-in signal distributors can be employed in combination with a 2-wire transmitter. They supply the prescribed DC power to the transmitter in the field through signal lines.

The DBR type is equipped with a square root extractor.

Features

- Provided with two pairs of output signal terminals per input.
- The small-sized plug-in type is easy to handle.
- Does not deliver signals in excess of approximately 25 mA, even in case the output is short-circuited.

Specifiaton

Model

WVP- - -

DB	Distributor	Non-isolated
DBA	Distributor compatible with smart transmitter	
DBR	Distributor with extraction of square root	

Supply Voltage		
20	AC 100 V \pm 10%,	50/60 Hz
21	AC 200 V \pm 10%,	50/60 Hz
22	AC 110 V \pm 10%,	50/60 Hz
23	AC 220 V \pm 10%,	50/60 Hz

	Output-1	Output-2
	Between Terminals Nos. 3 and 4	Between Terminals Nos. 5 and 6
A	DC 1-5 V	DC 1-5 V
B	DC 4-20 mA	DC 4-20 mA
C	DC 1-5 V	DC 4-20 mA

Transmitter Power Supply	
A	DC 24 V

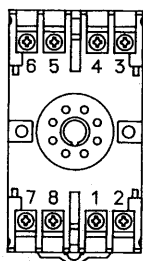
Distributor (Type DB and DBA)

Transmitter signal:	4 to 20 mA, DC (input resistance 250 Ω)
Output signal:	1 to 5 VDC or 4 to 20 mA, DC (number of outputs: 2)
Accuracy:	$\pm 0.1\% \cdot fs$ (at 23°C)
Output voltage:	24 VDC ± 1 V
Influence of load variation:	Output voltage variation less than 2%
Output current:	Type DB: Max. 22 mA Type DBA: Max. 40 mA (ripple less than 10 mVp-p)
Power consumption:	Approx. 3 VA
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Insulation resistance:	100 M Ω or more with a 500 VDC megger between the input/output terminal and power supply terminal
Dielectric strength:	2,000 VAC for 1 minute between the input/output terminal and power supply terminal
Influence of supply voltage:	$\pm 0.1\% \cdot fs$ /rated voltage $\pm 10\%$

Distributor with Extraction of Square root (Type DBR)

Transmitter signal:	4 to 20 mA, DC (input resistance 250 Ω)
Output signal:	1 to 5 VDC or 4 to 20 mA, DC (number of outputs: 2)
Accuracy:	$\pm 0.2\% \cdot fs$
Response time:	25 msec (time to reach 90% of the final value)
Output voltage:	24 VDC ± 1 V
Influence of load variation:	Output voltage variation less than 2%
Output current:	Max. 25 mA (ripple less than 10 mVp-p)
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	$\pm 0.2\% \cdot fs/10^\circ C$
Insulation resistance:	100 M Ω or more with a 500 VDC megger between the input/output terminal and power supply terminal
Dielectric strength:	2,000 VAC for 1 minute between the input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC)
Influence of supply voltage:	$\pm 0.1\% \cdot fs/\text{rated voltage} \pm 10\%$
Zero & span adjustment:	$\pm 20\% \cdot fs$ each (multi-turn trimmer)
Output shutdown:	This function forcibly cuts off the output in cases where the output falls below 10% of the rating.

Explanation of Functions



No.	Symbol	Description
1	INPUT	+
2		-
3	OUTPUT-1	+
4		-
5	OUTPUT-2	+
6		-
7	POWER	U (+)
8		V (-)