

SPECIFICATIONS

DBX-001

Spec. No.EN353DBX001-C 1/3

Power Conversion Box

1. General

DBX-001 is the power conversion box for the customer who uses the torque transducer of TMHF, TMHFB, TMOFA or TMOFB to use the transmitter OPT-563B.

2. Specifications

- \bullet Power supply voltage to stator $~\pm 15~{\rm V}$
- \bullet Power supply voltage to rotor $\ \ AC20$ Vrms Square wave 11.25 kHz
- Applicable torque transducer TMHF, TMHFB, TMOFA or TMOFB
- Applicable transmitter OPT-563B

3. General specifications

• Operating temperature / humidity range		
Temperature	-10 °C ~ 50 °C	
Humidity	85 %RH or less (Non condensing)	
• Power supply		
Power supply voltage	DC24 V±2 V, 2 A	
• Outline dimensions($W \times H \times D$)	
	180 mm × 65 mm ×60 mm (Evoluted connector on	

180 mm× 65 mm ×60 mm (Excludes connector and protruding parts) 900g

4. Accessories

• Weight

• Instruction manual 1 piece

• Coupling cable for transmitter (1m)

1 piece

5. Installation site

Please connect the transmitter by using a connection cable supplied with the unit, please be installed near the transmitter.

Please contact us if you can not install near the transmitter.

Minebea

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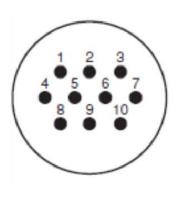
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6. Pin layout of connector

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Pin No.	Name	Usage
1	Differential signal of torque (+)	Torque signal output
2	Differential signal of torque (-)	Torque signal output
3	N.C.	Don't connect.
4	+24 V	Connect with DC24 V
5	GND	Ground
6	Shield	Shield
7	GND	Ground
8	N.C.	Don't connect.
9	Alarm (H)	Alarm for luminous energy decrease.
10	N.C.	Don't Connect
11	Alarm (M)	Alarm for luminous energy decrease.
12	Error	Alarm for luminous energy decrease.

X Applicable plug : equivalent to NJW-2012-PM12(UL) by Nanaboshi Electric Mfg. Co., Ltd.



Pin No.	Name	Usage	
1	Differential signal of torque (+)	Torque signal input	
2	Differential signal of torque (-)	Torque signal input	
3	+15 V	DC+15 V output	
4	GND	Ground	
5	-15 V	DC-15 V output	
6	GND	Ground	
7	ALARM	Alarm input for luminous energy decrease.	
8	GND	Ground	
9	AC	Power supply signal for rotor	
10	AC	Power supply signal for rotor	

* Applicable plug : equivalent to SRCN6A16-10P (by JAE)

Pin layout of the connector for torque transducer

Pin layout of the connector for torque transmitter



