



# NIPPON KAIJI KYOKAI

## *Certificate of Type Test*

Certificate No.

TA20268M

*FOR EXPLOSION PROTECTED TYPE ELECTRICAL EQUIPMENT*

APPLICANT: CCG Cable Terminations Ltd, North Yorkshire, England  
MANUFACTURER: CCG Cable Terminations Ltd, Kempton Park, South Africa  
PRODUCT: Junction Boxes  
TYPE NO.: Posifit types, Y-Box, H-Box, 4-Wy/TX-Box,  
3-Way bottom entry box, Angle box, Bottom entry angle box  
TYPE TEST NO.: 20T602  
PARTICULARS: See the attached sheet  
STANDARD: IEC60079-0(2011), IEC60079-7(2006), IEC60079-15(2010),  
IEC60079-31(2008)  
DOCUMENTATION: IECEx CML 15.0071U, IECEx CML 15.0072X,  
1009-0 to 100903, 100301, 100302, 1003-0 to 100304, 100201,  
100202, 100922, 100921 to 100923

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until 31 May 2025.

Issued at Tokyo on 1 June 2020.



T. Shimada  
General Manager  
Machinery Department

**PARTICULARS:**

- Type: Posi Fit™ Y-Box, H-Box, 4-Way/TX-Box  
 No. of Box sizes: Y-Box: 4 (0 to 3), H-Box: 2 (1 to 2), 4-Way/TX-Box: 5 (0 to 4)  
 Gland entry size: M16 to M40  
 Cable size: 2.5mm<sup>2</sup> to 70mm<sup>2</sup>  
 Box Material: Impact corrosion and UV resistant glass reinforced polyester compound.  
 Polycarbonate (see-through adapt-a-lids).  
 Nitrile rubber, EPDM seals. Terminals – Wellamid or Wemid  
 Seal material: Standard thermoset elastomer or extreme temperature seals  
 Optional accessories: Ex certified terminals, Box spanner (Lid locking key).  
 Blanking plugs are provided.  
 Note: The installer is to ensure that the materials are suitable for the installation environment. And manufacturer’s application and assembly instructions are to be followed.
- Protection levels: IEC Ex: Ex e IIC T6 Gb / Ex nA IIC T6 Gc / Ex tb IIIC T70°C Db  
 IEC Ex: Ex e IIC Gb / Ex nA IIC Gd / Ex tb IIIC Db for empty enclosure  
 Operating temp.: -60°C to +40/55°C  
 -60°C to +110°C for empty enclosure  
 Ingress protection: IP66, IP67, IP68 (2m cont)
- Conditions for safe:
- The CCG lid locking key must be used to open and close units that do not have locking screws such as “clear cover units”.
  - When fitted with the polycarbonate (clear) cover the equipment must be installed to prevent the generation of electrostatic charge.
  - When fitted with the clear lid, the unit must be installed to prevent UV exposure to the internal components fitted.
  - Clean only with a damp cloth.
  - Suitably certified cable glands and/or plugs shall be used in the enclosure threaded entries.
  - Terminal blocks shall only be used on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid.
  - The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN60079-7 requirements for the acceptable voltage of the terminal blocks.
  - Only the following terminals may be used, following the specific installation conditions set down by the terminal manufacturer / terminal certification. The current per circuit in the junction box is limited by the size of the conductor and shall not exceed the following.

Manufacturer	Certification Number	Ex coding	Type	Size	Volt.	Max. current	
						≤55°C	≤40°C
Weidmuller	IEC Ex ULD 14.0005U	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N	2.5mm <sup>2</sup>	550 V	8.34 A	11.90 A
				4mm <sup>2</sup>		11.12 A	15.86 A
				6mm <sup>2</sup>		14.25 A	20.33 A
				10mm <sup>2</sup>		19.81 A	28.26 A
				16mm <sup>2</sup>		26.42 A	37.68 A
				35mm <sup>2</sup>		42.46 A	61.98 A
				50mm <sup>2</sup>		52.50 A	74.88 A
	70mm <sup>2</sup>	66.75 A	95.21 A				
	IECEx SIR05.0038U	Ex e II	AKZ4 and AKE4	4mm <sup>2</sup>	275 V	-	-

# NIPPON KAIJI KYOKAI

Attached Sheet to Cert. No. TA20268M

Type: 3-Way Bottom Entry™ Box  
 No. of Box sizes: 2 (1 to 2)  
 Gland entry size: M20, M25  
 Cable size: 2.5mm<sup>2</sup> to 35mm<sup>2</sup>  
 Box Material: Impact corrosion and UV resistant glass reinforced polyester compound  
 Seal material: Nitrile rubber  
 Inserts: Brass internal earthing and rail mountings  
 Optional accessories: Certified terminals, 3-Blanking Plugs and Box Spanner (Lid Locking Key)  
 Note: The installer is to ensure that the materials are suitable for the installation environment. And manufacturer's application and assembly instructions are to be followed.

Protection levels: IEC Ex: Ex e IIC T6 Gb, Ex nA IIC T6 Gc, Ex tb IIIC T70°C Db  
 IEC Ex: Ex e IIC Gb, Ex nA IIC Gc, Ex tb IIIC Db for empty enclosure  
 Operating temp.: -60°C to +40/55°C  
 -60°C to +110°C for empty enclosure  
 Ingress protection: IP66, IP67, IP68 (2m cont)

Conditions for safe:

- Only the CCG tool supplied shall be used for opening / closing the enclosure.
- Suitably certified cable glands and/or plugs shall be used in the enclosure threaded entries
- Terminal blocks shall only be used on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid..
- The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN60079-7 requirements for the acceptable voltage of the terminal blocks.
- Only the following terminals may be used, following the specific installation conditions set down by the terminal manufacturer / terminal certification. The current per circuit in the junction box is limited by the size of the conductor and shall not exceed the following.

Manufacturer	Certification Number	Ex coding	Type	Size	Volt.	Max. current	
						≤ 55°C	≤ 40°C
Weidmuller	IEC Ex ULD 14.0005U	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N	2.5mm <sup>2</sup>	550 V	8.34 A	11.90 A
				4mm <sup>2</sup>		11.12 A	15.86 A
				6mm <sup>2</sup>		14.25 A	20.33 A
				10mm <sup>2</sup>		19.81 A	28.26 A
	Demko 14ATEX1338U	WPE 2.5, 4, 6, 10, 16, 35 and 70N	16mm <sup>2</sup>	26.42 A	37.68 A		
35mm <sup>2</sup>			42.46 A	61.98 A			
IECEX SIR05.0038U	Ex e II	AKZ4 and AKE4	4mm <sup>2</sup>	275 V	-	-	

Type: Angle Box™ - Ex  
 No. of Box sizes: 1 (2)  
 Gland entry size: M20, M25  
 Cable size: 2.5mm<sup>2</sup> to 35mm<sup>2</sup>  
 Box Material: Impact corrosion and UV resistant glass reinforced polyester compound  
 Seal material: Low temp. nitrile rubber, EPDM seals  
 Inserts: Brass, internal earth continuity ring and earth stud provided  
 Optional accessories: Ex certified terminals, Box spanner (Lid Locking Key)  
 4-Blanking plugs provided  
 Note: The installer is to ensure that the materials are suitable for the installation environment. And manufacturer's application and assembly instructions are to be followed.

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Protection levels: IEC Ex: Ex e IIC T6 Gb, Ex nA IIC T6 Gc, Ex tb IIIC T70°C Db  
IEC Ex: Ex e IIC Gb, Ex nA IIC Gc, Ex tb IIIC Db for empty enclosure

Operating temp.: -60°C to +40/55°C  
-60°C to +110°C for empty enclosure

Ingress protection: IP66, IP67, IP68 (2m cont)

- Conditions for safe:
- Only the CCG tool supplied shall be used for opening / closing the enclosure.
  - Suitably certified cable glands and/or plugs shall be used in the enclosure threaded entries
  - Terminal blocks shall only be used on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid..
  - The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN60079-7 requirements for the acceptable voltage of the terminal blocks.
  - Only the following terminals may be used, following the specific installation conditions set down by the terminal manufacturer / terminal certification. The current per circuit in the junction box is limited by the size of the conductor and shall not exceed the following.

Manufacturer	Certification Number	Ex coding	Type	Size	Volt.	Max. current	
						≤ 55°C	≤ 40°C
Weidmuller	IEC Ex ULD 14.0005U	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N	2.5mm <sup>2</sup>	550 V	8.34 A	11.90 A
				4mm <sup>2</sup>		11.12 A	15.86 A
				6mm <sup>2</sup>		14.25 A	20.33 A
	Demko 14ATEX1338U		WPE 2.5, 4, 6, 10, 16, 35 and 70N	10mm <sup>2</sup>		19.81 A	28.26 A
				16mm <sup>2</sup>		26.42 A	37.68 A
				35mm <sup>2</sup>		42.46 A	61.98 A
IECEX SIR05.0038U	Ex e II	AKZ4	4mm <sup>2</sup>	275 V	-	-	

Type: Bottom Entry Angle Box™

No. of Box sizes: 3 (1 to 3)

Gland entry size: M20, M25, M32

Cable size: 2.5mm<sup>2</sup> to 35mm<sup>2</sup>

Box Material: Impact corrosion and UV resistant glass reinforced polyester compound

Seal material: Low temp. nitrile rubber

Inserts: Brass, internal earth continuity ring and earth stud provided

Optional accessories: Ex certified terminals, Box spanner (Lid Locking Key)

3-Blanking plugs provided

Note: The installer is to ensure that the materials are suitable for the installation environment. And manufacturer's application and assembly instructions are to be followed.

Protection levels: IEC Ex: Ex e IIC T6 Gb, Ex nA IIC T6 Gc, Ex tb IIIC T70°C Db

IEC Ex: Ex e IIC Gb, Ex nA IIC Gc, Ex tb IIIC Db for empty enclosure

Operating temp.: -60°C to +40/55°C

-60°C to +110°C for empty enclosure

Ingress protection: IP66, IP67, IP68 (2m cont)

- Conditions for safe:
- Only the CCG tool supplied shall be used for opening / closing the enclosure.
  - Suitably certified cable glands and/or plugs shall be used in the enclosure threaded entries
  - Terminal blocks shall only be used on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid..
  - The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN60079-7 requirements for the acceptable voltage of the terminal blocks.
  - Only the following terminals may be used, following the specific installation conditions set down by the terminal manufacturer / terminal certification. The current per circuit in the junction box is limited by the size of the conductor and shall not exceed the following.

Manufacturer	Certification Number	Ex coding	Type	Size	Volt.	Max. current	
						≤55°C	≤40°C
Weidmuller	IEC Ex ULD 14.0005U	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N	2.5mm <sup>2</sup>	550 V	8.34 A	11.90 A
				4mm <sup>2</sup>		11.12 A	15.86 A
				6mm <sup>2</sup>		14.25 A	20.33 A
				10mm <sup>2</sup>		19.81 A	28.26 A
				16mm <sup>2</sup>		26.42 A	37.68 A
	35mm <sup>2</sup>	42.46 A	61.98 A				
	IECEX SIR05.0038U	Ex e II	AKZ4	4mm <sup>2</sup>	275 V	-	-

————— The End —————