

### **GEN** series 1-KAB2148-1.5

# eAxle Connection cable G070 to GN31xB/GN61xB

### **Special features**

- Specially designed for eAxle set-up
- Connects up to two G070A splitter boxes with a Genesis HighSpeed series mainframe
- Enables the use of up to four Timer/Counter channels per input card

## eAxle Connection cable G070 to GN31xB/ GN61xB

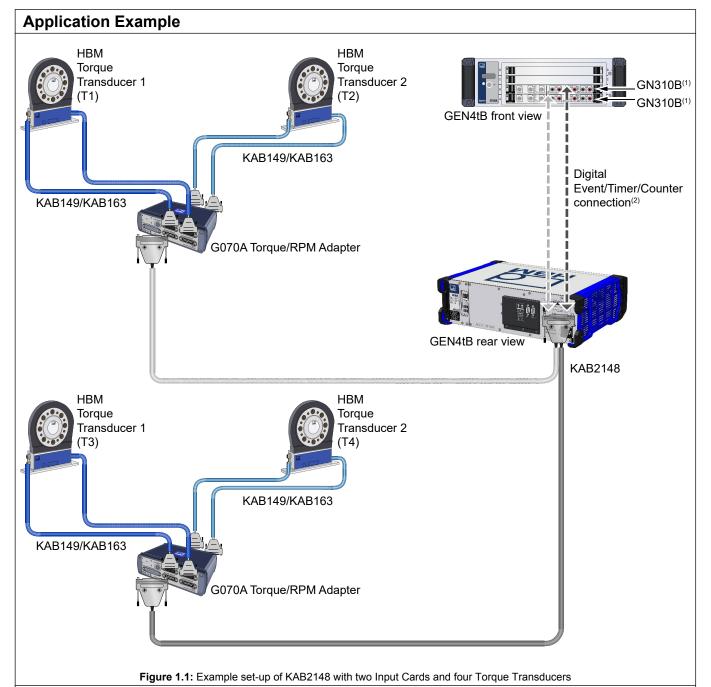
The 1.5 m long, special eAxle connection cable makes it possible to connect two torque transducers (torque and speed) to a single GN310B/GN311B or GN610B/GN611B Input card.

By using 1-KAB2148 cable, you can connect up to 4 Timer/Counter channels (provided e.g. by one G070A Torque/RPM adapter) per acquisition slot of your Genesis HighSpeed series mainframe.

Thus, the Y-shape of 1-KAB2148 cable enables the connection of two G070A Torque/RPM adapters to their related acquisition slots. By this, two torque transducers can be assigned to one input board - an ideal setup for eAxle measurements.

**NOTE:** Using this cable disables the Event I/O loop through functionality on the G070A.



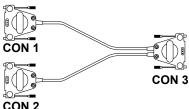


Example: With KAB2148 it is possible to connect in total four torque transducers to two input cards: Torque transducers (T1) and (T2) are connected to a G070A, torque transducers (T3) and (T4) to an additional G070A. Both G070A are then connected to the mainframe by using the KAB2148 cable. In this example, the torque transducers (T1) and (T2) are assigned to the input card in the mainframe's slot A; the torque transducers (T3) and (T4) to the input card in the mainframe's slot B respectively. It is possible to connect less torque transducers and to leave one end of the KAB2148 open.

- (1) GN310B can be replaced with GN311B/GN610B/GN611B cards.
- (2) For more information on Digital Event/Timer/Counter connections, please refer to the GEN series mainframe manuals to chapter "Digital Event/Timer/Counter".

### Digital Event/Timer/Counter Connector 1; 2 and 3 Pin Assignment





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PIN 1 - Event Input Timer/Counter A2-A PIN 2 - Event Input Timer/Counter A2-B PIN 3 - Event Input Timer/Counter A2-C

PIN 4 - Not connected
PIN 5 - Not connected

PIN 6 - Not connected

PIN 7 - Not connected PIN 8 - Not connected

PIN 9 - Not connected

PIN 10 - Event Input Timer/Counter A1-A PIN 11 - Event Input Timer/Counter A1-B

PIN 12 - Event Input Timer/Counter A1-C
PIN 13 - Event Input Timer/Counter A4-A

PIN 14 - Event Input Timer/Counter A4-B PIN 15 - Event Input Timer/Counter A4-C

PIN 16 - Not connected

PIN 17 - Not connected

PIN 18 - Not connected PIN 19 - Not connected

PIN 20 - Not connected

PIN 21 - Not connected

PIN 22 - Event Input Timer/Counter A3-A PIN 23 - Event Input Timer/Counter A3-B

PIN 24 - Event Input Timer/Counter A3-C

PIN 25 - Not connected PIN 26 - Not connected PIN 27 - Ground & Shield

PIN 28 - Ground

PIN 29 - Ground PIN 30 - Ground

PIN 31 - Not connected PIN 32 - Not connected

PIN 33 - Not connected

PIN 34 - Not connected PIN 35 - Not connected

PIN 36 - Not connected PIN 37 - Not connected

PIN 37 - Not connected PIN 38 - Shunt Box 1B

PIN 39 - Not connected PIN 40 - Shunt Box 1A

PIN 41 - Not connected PIN 42 - Not connected

PIN 43 - +5 V Power

PIN 44 - +5 V Power

Connector 2

PIN 1 - Event Input Timer/Counter B2-A PIN 2 - Event Input Timer/Counter B2-B

PIN 3 - Event Input Timer/Counter B2-C

PIN 4 - Not connected

PIN 5 - Not connected PIN 6 - Not connected

PIN 6 - Not connected

PIN 7 - Not connected PIN 8 - Not connected

PIN 9 - Not connected

PIN 10 - Event Input Timer/Counter B1-A

PIN 11 - Event Input Timer/Counter B1-B PIN 12 - Event Input Timer/Counter B1-C

PIN 13 - Event Input Timer/Counter B4-A

PIN 14 - Event Input Timer/Counter B4-B

PIN 15 - Event Input Timer/Counter B4-C

PIN 16 - Not connected

PIN 17 - Not connected

PIN 18 - Not connected

PIN 19 - Not connected PIN 20 - Not connected

PIN 21 - Not connected

PIN 22 - Event Input Timer/Counter B3-A

PIN 23 - Event Input Timer/Counter B3-B

PIN 24 - Event Input Timer/Counter B3-C

PIN 25 - Not connected

PIN 26 - Not connected

PIN 27 - Ground & Shield

PIN 28 - Ground PIN 29 - Ground

PIN 30 - Ground

PIN 31 - Not connected

PIN 32 - Not connected

PIN 33 - Not connected

PIN 34 - Not connected PIN 35 - Not connected

PIN 36 - Not connected

PIN 37 - Not connected

PIN 38 - Shunt Box 2B

PIN 39 - Not connected PIN 40 - Shunt Box 2A

PIN 40 - SHUIR BOX ZA

PIN 41 - Not connected

PIN 42 - Not connected PIN 43 - +5 V Power

PIN 44 - +5 V Power

**Connector 3** 

PIN 1 - Event Input Timer/Counter A2-A

PIN 2 - Event Input Timer/Counter A2-B

PIN 3 - Event Input Timer/Counter A2-C

DIN 4 Event Input Timer/Counter A4 A

PIN 4 - Event Input Timer/Counter A4-A

PIN 5 - Event Input Timer/Counter A4-B

DIN 6 Event Input Timer/Counter A4 (

PIN 6 - Event Input Timer/Counter A4-C

PIN 7 - Event Input Timer/Counter A3-A

PIN 8 - Event Input Timer/Counter A3-B

PIN 8 - Event Input Timer/Counter A3-E

PIN 9 - Event Input Timer/Counter A3-C

PIN 10 - Event Input Timer/Counter A1-A

PIN 11 - Event Input Timer/Counter A1-B

PIN 12 - Event Input Timer/Counter A1-C

PIN 13 - Event Input Timer/Counter B2-A

DIN 44 Front Input Time / Occurtor BO

PIN 14 - Event Input Timer/Counter B2-B

PIN 15 - Event Input Timer/Counter B2-C

PIN 16 - Event Input Timer/Counter B4-A

PIN 17 - Event Input Timer/Counter B4-B

PIN 18 - Event Input Timer/Counter B4-C

PIN 19 - Event Input Timer/Counter B3-A

PIN 20 - Event Input Timer/Counter B3-B

PIN 21 - Event Input Timer/Counter B3-C

PIN 22 - Event Input Timer/Counter B1-A

PIN 23 - Event Input Timer/Counter B1-B

PIN 24 - Event Input Timer/Counter B1-C

PIN 25 - Not connected

PIN 26 - Not connected

PIN 27 - Ground & Shield

PIN 28 - Ground

PIN 29 - Ground

PIN 30 - Ground

PIN 31 - Not connected

PIN 32 - Not connected

PIN 33 - Not connected

PIN 34 - Not connected

PIN 35 - Not connected

PIN 36 - Not connected

PIN 37 - Shunt Box 2B PIN 38 - Shunt Box 2A

PIN 39 - Shunt Box 1B

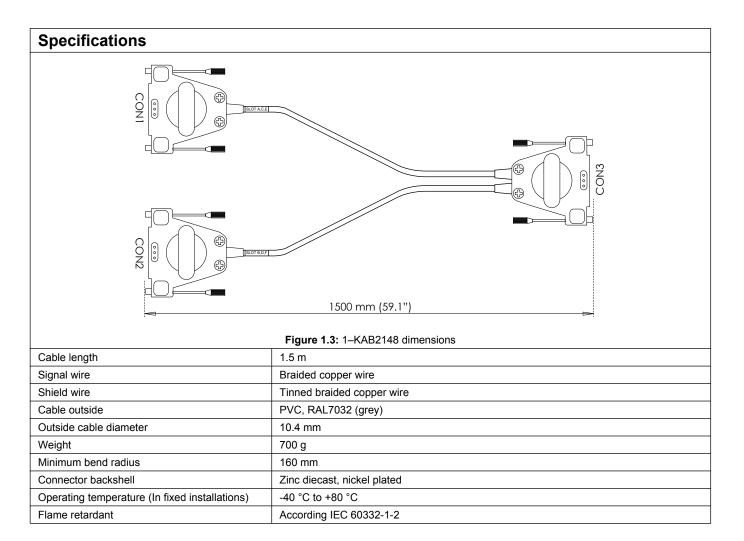
PIN 40 - Shunt Box 1A

PIN 41 - Not connected

PIN 42 - Not connected

PIN 43 - +5 V Power PIN 44 - +5 V Power

Figure 1.2: Pin diagram for Digital Event/Timer/Counter connector 1; 2 and 3



Standards for CE and UKCA C	ompliance
Low Voltage Directive (LVD): 2014/35/EU Electromagnetic Compatibility Directive (EMC): 2	014/30/EU
C∈Confirmation	For information about the CE Declaration of conformity, please refer to www.hbm.com/fileadmin/mediapool/hbmdoc/technical/ce356.pdf
UK Confirmation	This product complies with the essential requirements of applicable and relevant regulations of the United Kingdom (UK).
	Adress of Manufacturer, importer and/or representative:  Hottinger Brüel & Kjaer GmbH  Im Tiefen See 45 64293 Darmstadt Germany

(1) GN310B/GN311B or GN610B/GN611B card.

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