



Low-profile Connector Kit for Motor Feedback

Catalog Numbers 2090-K2CK-D15M, 2090-DA-BAT2

About This Publication

This publication provides wiring instructions for the Allen-Bradley Low-profile Connector Kit. This connector kit provides an interface between the motor feedback (MF) connector on a Kinetix drive and the encoder signals of any servo motor compatible with the drive.

Wiring the Low-profile Connector Kit

Refer to the illustrations and the appropriate drive manual when wiring this connector. Tools you need to assemble the connector include a wire cutter, wire stripper, flatblade screwdriver \varnothing 2.5 mm (0.10 in.) max, and needle-nose pliers (optional).

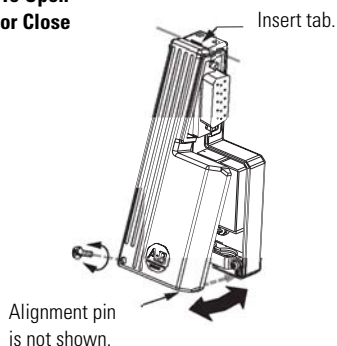
ATTENTION



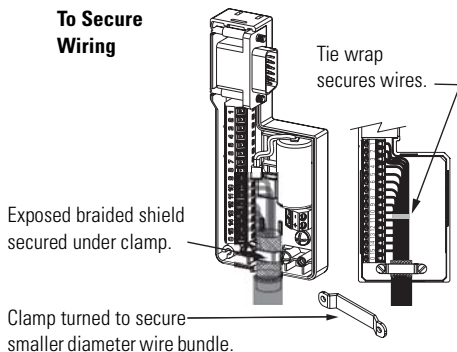
To prevent electrical shock, disconnect the connector from a power source before installing or servicing.

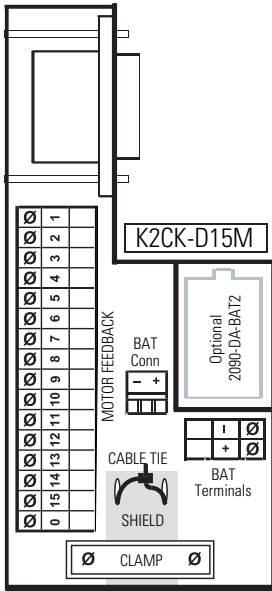
Use this device in a suitable enclosure, and keep it from contaminants.

To Open or Close



To Secure Wiring





Motor Feedback (MF)	
Terminal	Signal ⁽²⁾
1	AM+
2	AM-
3	BM+
4	BM-
5	DATA+ / IM+
6	ECOMM
7	EPWR_9V
8	S3
9	E_OT+
10	DATA- / IM-
11	TS
12	S1
13	S2
14	EPRW_5V
15	E_OT-
0	SHIELD

Optional Battery Connections for TL-Series Motors ⁽¹⁾

3.6V Battery Connection		3.6V Power to TL-Series Encoder	
Pin	Signal	Terminal	Signal
+	BAT +	+	BAT +
-	BAT -	-	BAT -

⁽¹⁾ Battery connections are used only with TL-Series motors requiring multi-turn absolute feedback. Refer to Kinetix 2000 publications, 2093-IN001 and 2090-UM001, for additional information.

⁽²⁾ Signal arrangement is for the MF connector on Kinetix drives. Always wire the connector to interface the signals from your motor to that of the drive. Refer to Kinetix 2000 publication, 2090-UM001, for information.

IMPORTANT

Always make effective electrical contact between the clamp and the exposed cable shield.

Turn clamp over, if necessary, to make electrical contact.

Specifications

Low-profile Connector Kit – 2090-K2CK-D15M

Attribute	Value
Current rating	1.0 A max
Cable diameter	4...10 mm (0.16...0.39 in.)
Screw terminal wire range	Solid or stranded 0.14...1.5 mm ² (30...16 AWG)
Recommended strip-off length	5 mm (0.2 in) single conductor
Temperature range	-40...70 °C (-40...158 °F)

Battery

Catalog Number	Description
2090-DA-BAT2	3.6V, ½ height, non-rechargeable, lithium battery with 2-pole mini connector

ATTENTION



The 2090-DA-BAT2 is a non-rechargeable lithium battery. Unique storage restrictions and disposal requirements may apply.

If you are not familiar with current regulations, contact your local or state environmental coordinator, the U.S. Department of Transportation (DOT), or the U.S. Environmental Protection Agency (EPA).

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Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your module up and running.

United States	1.440.646.3223 Monday – Friday, 8am – 5pm EST
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Publication 2093-IN005A-EN-P - November 2006

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