

Kinetix Safe-off Components

The safe-off feature is available with Kinetix 6000, Kinetix 6000M, Kinetix 7000, drives and with Kinetix 6200 and Kinetix 6500 drives when the 2094-xx02x-M0x-S0 control modules are used.

You can implement the safe-off function in a single drive or extend it to as many as eight drives in a multiple safety drive configuration. The safe-off connector can also be jumpered to effectively remove the safe-off function (this is the default setting).

Additional Resources for Safe-off Configurations

Resource	Description
Kinetix Safe-off Feature Safety Reference Manual, publication GMC-RM002	Information on wiring and troubleshooting your Kinetix 6000 and Kinetix 7000 servo drives with the safe-off feature.
Kinetix 6000M Integrated Motor-Drive User Manual, publication 2094-UM003	Information on wiring and troubleshooting your Kinetix 6000M integrated drive-motor system with the IPIM module safe-off feature (catalog number 2094-SEPM-B24-S).
Kinetix 6200 and Kinetix 6500 Safe Torque-off Servo Drives Safety Reference Manual, publication 2094-RM002	Information on wiring, configuring, and troubleshooting the safe torque-off features of your Kinetix 6200 and Kinetix 6500 drives.

Kinetix 6000, Kinetix 6000M, and Kinetix 7000 Safe-off Components

Kinetix 6000, Kinetix 6000M, and Kinetix 7000 drive families share these safe-off cables and headers.

Catalog Numbers - Kinetix 6000, Kinetix 6000M, and Kinetix 7000 Safe-off Components

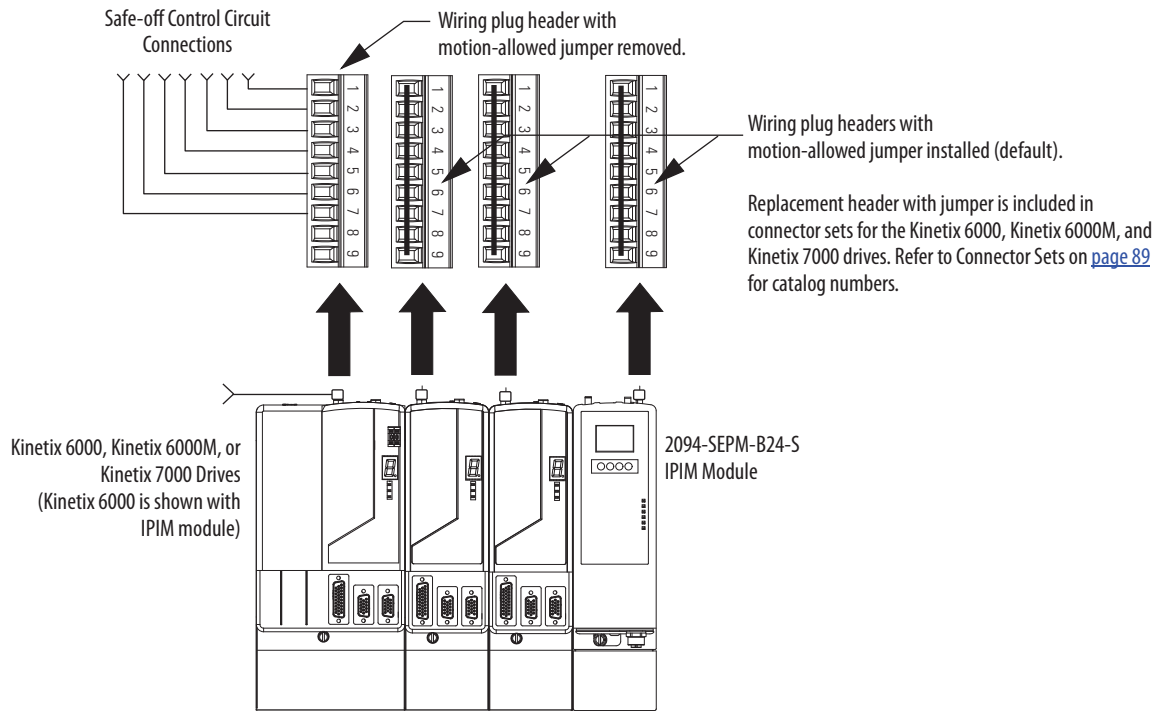
Cat. No.	Description
2090-XNSM-W	Safe-off wiring header for the first drive in multiple safety drive configurations.
2090-XNSM-M	Safe-off middle header for drive-to-drive connections in multiple safety drive configurations with three or more drives.
2090-XNSM-T	Safe-off terminating header for the last drive in multiple safety drive configurations.
1202-C02	Drive-to-drive safety cable for connecting single-wide Kinetix 6000 drives.
1202-C03	Drive-to-drive safety cable for connecting double-wide Kinetix 6000 drives and 2094-SEPM-B24-S (IPIM) modules.
1202-C10	Drive-to-drive safety cable for connections between two Kinetix 6000 power rails, two Kinetix 7000 drives, or from the Kinetix 6000 power rail to Kinetix 7000 drive.

Safe-off Header Examples

In this example, a single Kinetix 6000 safe-off drive is shown using the wiring plug header with the motion-allowed jumper removed. The second and third drives do not use the safe-off feature, so the motion-allowed jumpers remain installed. This single drive configuration also applies to Kinetix 7000 safe-off applications.

When the motion-allowed jumper is installed on a 2094-SEPM-B24-S IDM power interface module (IPIM), the safe-off feature is disabled on all integrated drive-motor (IDM) units connected to the IPIM module.

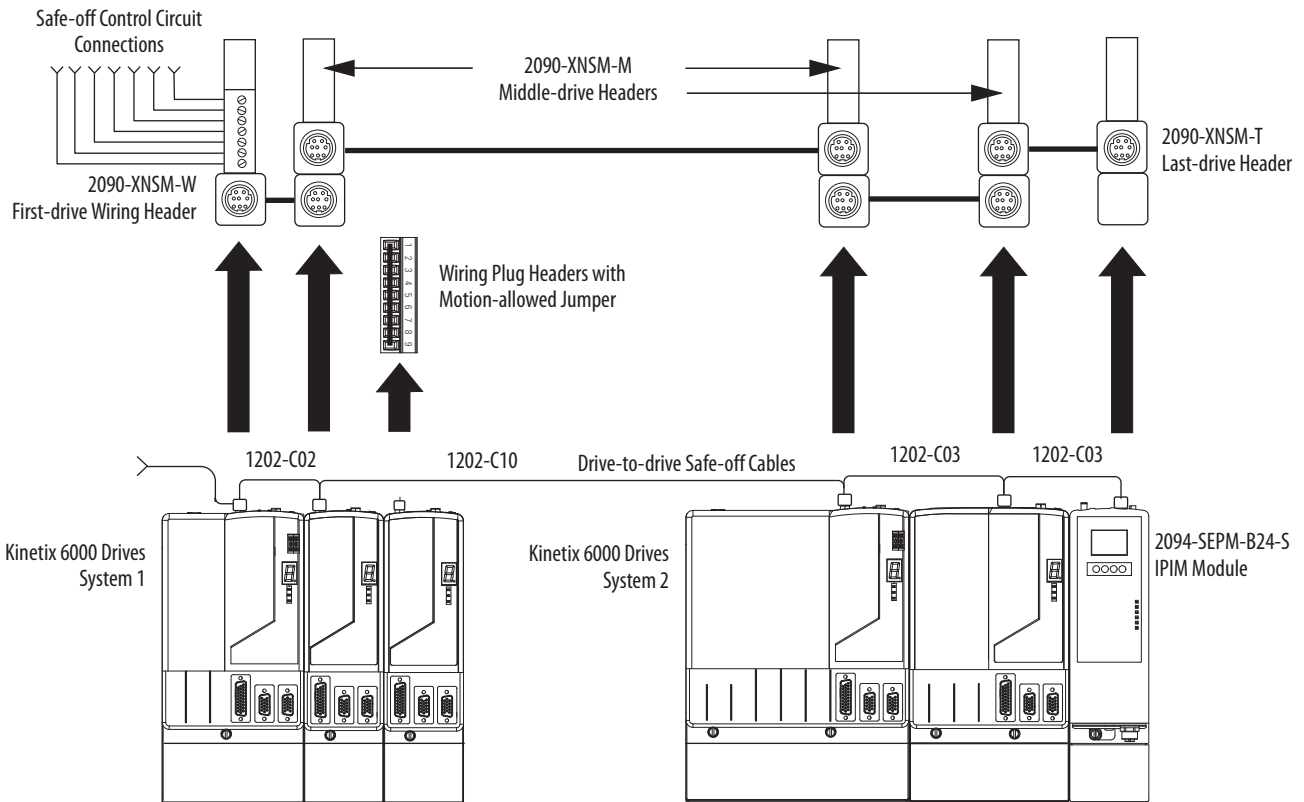
Typical Single Drive Safe-off Configuration



In this example, system 1 contains two (single-wide) Kinetix 6000 drives using the safe-off feature wired with two (double-wide) Kinetix 6000 drives in system 2. System 2 also includes the 2090-SEPM-B24-S IPIM module. The wiring headers with motion allowed jumpers have been replaced as shown. The third axis in system 1 does not use the safe-off feature, so the wiring header and motion allowed jumper remain installed.

This multiple drive configuration also applies to the Kinetix 7000 drives. When wiring the Kinetix 7000 modules from drive-to-drive, use 1202-C10 cables.

Typical Multiple Drive Safe-off Configuration



IMPORTANT

Due to the current capacity limitation of the safe-off cable connectors, multiple safe-off drive configurations must not exceed eight Kinetix 6000 or Kinetix 7000 drive modules.