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Motion Group Instructions

Group instructions include all motion instructions that operate on all the axes in the specified group. Instructions that are applied to groups include position strobe, shutdown control, and stopping instructions. Only one group is supported for each Logix controller.

These are the motion group instructions.

Available Instructions

Ladder Diagram and Structured Text

MGS	MGSD	MGSR	MGSP
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Function Block

Not available

Important: Tags used for the motion control attribute of instructions should only be used once. Reuse of the motion control tag in other instructions can cause unintended operation. This may result in damage to equipment or personal injury.

Group Control Instructions include all motion instructions that operate on all the axes in the specified group. Instructions that can be applied to groups include position strobe, shutdown control, and stopping instructions. Note that at present only one group is supported per Logix controller.

The motion group instructions are:

If you want to:	Use this instruction:
Initiate a stop of motion on a group of axes.	MGS
Force all axes in a group into the shutdown operating state.	MGSD
Transition a group of axes from the shutdown operating state to the axis ready operating state.	MGSR
Latch the current command and actual position of all axes in a group.	MGSP

See also

[Motion Configuration Instructions](#)

[Motion Move Instructions](#)

[Motion State Instructions](#)

[Multi-Axis Coordinated Motion Instructions](#)

[Motion Event Instructions](#)



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