

CRS Carousel



Manufacturer: CRS
 Model Number: CRS-Carousel
 Web Address: www.thermofisher.com

The CRS carousels are microplate carousels consisting of a motorized turntable with detachable hotels that store microplates, lids, and tip boxes.

Carousel: Commands

▶ **MotorPower(power)** - Powers the motor on/off.

power	Boolean	True: powers motor. False: disables motor.
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▶ **EngageMotor(engage)** - Engages/disengages the motor.

engage	Boolean	True: engages motor. False: disengages motor.
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▶ **HomeMotor()** - Homes the motor axis.

▶ **CalibrateMotorPosition()** - Calibrates the motor's position relative to the proximity sensor.

▶ **MoveAbsolute(offset)** - Causes the motor to rotate to the specified offset from the zero position.

offset	Integer	The offset that the motor will move by. A value of zero moves carousel to the zero position. Range of values: -10 to 10.
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▶ **MoveIncremental(pulses)** - Causes the motor to rotate by the specified number of pulses.

pulses	Integer	Number of pulses that the motor will rotate. Range of values: -10 to 10.
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▶ **ReverseDirection(direction)** - Reverse direction of the motor motion.

direction	Boolean	True: reverse direction of motor motion. False: default direction of motor motion.
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▶ **ClearErrors()** - Clears all errors so the motor can be turned on.

▶ **MotionComplete()** - Checks the status of the motion command.

▶ **GetRequestedPosition()** - Get the absolute position that the motor is currently being requested to move to.

▶ **GetError()** - Gets the position error of the motor. consists of the difference between the requested position and the actual motor position.

▶ **GetCurrentPosition()** - Gets the current position of the motor.

▶ **GetInputState(input)** - Gets the state of the specified input.

input	Integer	The input to be queried. Ranges from 1 to 8 with no option cards installed. Range of values: 1 to 8.
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▶ **SetAcceleration(acceleration)** - Sets the acceleration parameter of

the carousel.

acceleration	Integer	The value to be set for the acceleration. Typical values are in the range of 2 to 30. Range of values: 1 to 255.
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▶ **SetMaximumVelocity(maximumVelocity)** - Sets the maximum motor velocity

maximumVelocity	Integer	Maximum motor velocity. Typical values are in the range of 400 to 800. Range of values: 1 to 3328.
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▶ **SetSpeed(speed)** - Changes the speed of the motor.

speed	Integer	Speed as a percentage.
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▶ **SetZeroPosition()** - Defines the current position of the motor as the zero position.

▶ **SetMachineType(machineType)** - Changes the machine type setting of the controller.

machineType	Integer	Set to the specified machine type. 1: CRS Carousel, 2: CRS Linear Slide. Range of values: 1 to 2.
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▶ **SetOutputHigh(output)** - Sets the specified output to high.

output	Integer	The number of the output which is to be set to high. Ranges from 1 to 8 with no option cards installed. Range of values: 1 to 8.
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▶ **SetOutputLow(output)** - Sets the specified output to low.

output	Integer	The number of the output which is to be set to low. Ranges from 1 to 8 with no option cards installed. Range of values: 1 to 8.
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Carousel Error

🚨 **CarouselError(alarmMessage)** - Error occurred during command execution.

alarmMessage	String	Error message for the instrument
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