

- INNOVATIVE
- RESPONSIVE
- FIELD-PROVEN
- WORLD CLASS

Keep your world moving  
with rapid design and  
quality manufacturing of  
motion control systems  
that solve your  
toughest challenges

INNOVATIVE SOLUTIONS FOR A WORLD IN MOTION

## 2022/2023 COMMERCIAL PRICE LIST










Control Solutions LLC  
2520 Diehl Road  
Aurora, IL 60502  
Phone: 630.806.7062  
Fax: 630.806.7065  
[www.controls.com](http://www.controls.com)





CONTROL  
SOLUTIONS™

## Commercial Products from Control Solutions LLC

### 1. Motor Controllers











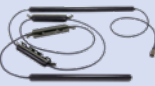


Part Number	Item Name	List Price
CS1108X 	<b>PROGRAMMABLE MOTOR CONTROLLER</b> The CS1108 is a commercial industrial-grade DC motor controller with programmable PWM functionality. Designed to operate a 12v-24 VDC motor. This small form-factor controller can be embedded in many OEM products and can be used in a wide variety of applications and is programmable for different acceleration profiles.	Call For Pricing
CS3208X 	<b>DC MOTOR CONTROLLER</b> The CS3208 is a hardened industrial-grade DC motor controller with programmable PWM functionality. Designed to operate a 24 VDC motor. This motor control can be used in a wide variety of applications and is programmable for different acceleration profiles.	\$6,995
CS3308X 	<b>DC MOTOR CONTROLLER</b> The CS3308 LVSR is a programmable, hardened industrial-grade DC PWM motor controller that incorporates a long neck break-away connector for 24V power. This motor control can be used in a wide variety of applications and is programmable for different acceleration profiles.	\$6,995
CS3248X 	<b>PROGRAMMABLE DC MOTOR CONTROLLER</b> The CS3248 is the 2nd-generation motor controller from the CS3208 family and is equally applicable for usages in industrial and commercial usages where robust motion control is required.	\$6,395
CS1107X 	<b>PROGRAMMABLE MOTOR CONTROLLER</b> The CS1107 is a different form factor for the CS1108 PWM controller for DC motor applications and can be reprogrammed in firmware for a wide variety of industrial applications.	\$289
CS3217X 	<b>DC MOTOR CONTROLLER</b> The CS3217 is a modified CS3208 controller where the software profile has been preset by the CSLLC engineers. It can be reprogrammed in firmware for a wide variety of industrial applications.	\$7,099
CS3225X 	<b>DC MOTOR CONTROLLER (SLIM-FIT)</b> The CS3225 is the DC-powered motor controller originally designed to fit within the cavity of a vehicle door (slim form factor) using programmable PWM technology. This controller has a built-in battery charger with onboard battery level status indicator.	\$4,295
CS3226X 	<b>DC MOTOR CONTROLLER</b> The CS3226 is a modified CS3248 DC-powered motor controller designed to fit within a small cavity and can be surface-mounted while retaining access to all connections.	\$4,800
CS3266 	<b>DC MOTOR CONTROLLER</b> The CS3266 has been developed for industrial and commercial applications in tough environments and harsh conditions. For use with the CS3267 Joystick-Switch Actuator.	\$3755

### 2. User Interface Controls

ASM000351X 	<b>EMERGENCY SWITCH</b> The ASM000351x is a push-pull switch that is a waterproof assembly useable as an emergency stop switch for harsh environments. The emergency stop switch can be placed virtually anywhere on your custom application to provide easy access.	\$929
ASM000355X 	<b>DOOR-MOUNTED TOGGLE SWITCH</b> Hermetically-sealed enclosure. This is a four-switch assembly consisting of two SPDT toggle switches with momentary contact plus two SPST toggle switches. It can be used for a wide variety of commercial applications. The assembly terminates in Amphenol connectors for wiring to other ruggedized systems.	\$899

Specifications and pricing subject to change without notice.




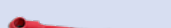
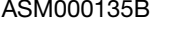


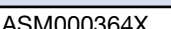


Continued on page 3

CS2150X 	<b>VEHICLE POWER MODULE FOR AUXILIARY DEVICES</b> The CS2150 is a microprocessor-based power distribution module capable of providing multiple power outlets from a common 24V battery power source. Each output is switch-controlled. Outputs are provided for 24V, 12V, and 5V USB.	\$ 3,729
CS3209X 	<b>JOYSTICK ACTUATOR</b> The CS3209 is a single-axis joystick (left-right or up-down motion) that has been developed for industrial and commercial applications in tough environments and harsh conditions	\$2,195
CS3218X 	<b>JOYSTICK ACTUATOR AND CONTROL</b> The CS3218 is a rugged small form-factor two direction joystick controller that can be used in conjunction with a CS motor controller in rugged environments.	\$8500
CS3210X 	<b>HEAVY-DUTY THUMB-DRIVEN WATERPROOF ACTUATOR</b> Heavy-duty thumb-driven waterproof actuator that can be mounted to industrial equipment to vary the speed of motor control modules. Requires the use of ASM001175A cable assembly	\$1,249
CS3267 	<b>JOYSTICK-SWITCH ACTUATOR</b> The CS3267 has been developed for industrial and commercial applications in tough environments and harsh conditions. For use with the CS3266 Command Center Controller.	\$2237
CS3310X 	<b>HEAVY-DUTY FINGERTIP TOGGLE ACTUATOR</b> Heavy-duty fingertip toggle actuator with variable-output that controls CSLLC motor control modules. Can be mounted to commercial or industrial equipment for easy manipulation.	\$1,429
CS3320X 	<b>INDUSTRIAL CONTROL ACTUATOR</b> Industrial control actuator with mounting bracket. Fingertip toggle actuator with built-in cable connects to motor control modules to vary fwd/rev speeds.	\$1,449
CS3330X 	<b>HEAVY-DUTY FINGERTIP TOGGLE ACTUATOR</b> Industrial fingertip toggle actuator for forward-reverse motor controllers. Provides variable-output that controls CSLLC motor control modules. Comes complete with hook & loop mounting for commercial or industrial equipment.	\$1,429
<b>3. Battery Chargers &amp; Batteries</b>		
CS4102X 	<b>BATTERY ASSEMBLY</b> The CS4102 is a 24V 3Ah NiMh rechargeable battery pack designed for heavy duty applications. The CS4102 is capable of a peak current drain of 50 amps. The NiMh batteries are designed for long service life and have an expected lifetime of 500 cycles.	\$1,175
CS1204X 	<b>BATTERY CHARGER</b> The CS1204 charger is a commercial/industrial market charger for 12V battery banks. This charger is also available in a UL-certified version.	\$349
<b>4. Cables and Other</b>		
ASM000560X 	<b>SAFETY STRIP SENSOR</b> The ASM000560 sensor strip is a six-section assembly used to stop the motor controller from pinching body parts in vehicle door frames. The 560 is designed for the left-hand doors of industrial and military vehicles.	\$1,900
ASM000561X 	<b>SAFETY STRIP SENSOR</b> The ASM000561 sensor strip is a six-section assembly used to stop the motor controller from pinching body parts in vehicle door frames. The 561 is designed for the right-hand doors of industrial and military vehicles.	\$1,900
ASM000540X 	<b>RUGGED POWER CABLE</b> The ASM000540 cable is a industrial grade assembly used to connect the CS motor controller to various operator interfaces. This cable can be adapted with different vehicle power terminations.	\$425

Specifications and pricing subject to change without notice.



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#### 4. Cables and Other (continued)

<b>ASM000130X</b> 	<b>VEHICLE POWER CABLE ASSEMBLY</b> The ASM000130 cable is an industrial grade assembly used to connect the motor controller from the vehicle power bus to the fuse. This cable can be adapted with different vehicle power terminations	<b>\$69</b>
<b>ASM000125X</b> 	<b>BATTERY POWER CABLE ASSEMBLY</b> The ASM000125 cable is an industrial grade assembly used to connect the auxiliary batteries to the fuse negative terminal. This cable can be adapted with different vehicle power terminations.	<b>\$34</b>
<b>ASM000216X</b> 	<b>VEHICLE POWER CABLE ASSEMBLY</b> The ASM000216 cable is an industrial grade assembly designed for the breakaway connection to the motor controller. The breakaway connector is a standard 2-wire battery connector commonly used for forklift truck batteries.	<b>\$299</b>
<b>ASM000131X</b> 	<b>VEHICLE POWER CABLE ASSEMBLY</b> The ASM000131 cable is an industrial grade assembly used to connect the auxiliary batteries to the fuse positive terminal. This cable can be adapted with different vehicle power terminations.	<b>\$59</b>
<b>ASM000135B</b> 	<b>VEHICLE POWER CABLE ASSEMBLY</b> The ASM000135B is a 24 volt DC power cable with 2 #6AWG conductors in heat shrink tubing terminating in Amphenol 2-pin connector Mil-C-5015	<b>\$448</b>
<b>ASM000363X</b> 	<b>POWER-CONTROL CABLE</b> The ASM000363 is an industrial grade insulated cable provides power to motor controller assembly. This cable is 59" long with 8 conductors.	<b>\$410</b>
<b>ASM000364X</b> 	<b>POWER-CONTROL CABLE</b> The ASM000364 is an industrial grade insulated cable provides power to motor controller assembly. This cable is 123" long with 8 conductors.	<b>\$520</b>
<b>ASM000414X</b> 	<b>POWER-CONTROL CABLE</b> The ASM000414 is an industrial grade insulated battery cable provides power to motor controller assembly. This cable is 23" long with 2 conductors.	<b>\$220</b>
<b>ASM001175X</b> 	<b>JOYSTICK/THUMB CABLE</b> The ASM001175 is an industrial grade insulated connection cable that provides a connection between motor controller and joystick or thumb drive. This cable is 57" long with 3 conductors.	<b>\$425</b>
<b>CS2144-ASM</b> 	<b>TRAVERSE POWER CIRCUIT BREAKER</b> The CS2144-ASM is an industrial grade 60 Amp DC automatic reset circuit breaker.	<b>\$3,900</b>
<b>CS002861X</b> <i>photo not available</i>	<b>JOYSTICK MOUNTING BRACKET</b> The CS002861 is an industrial grade mounting bracket for CS3218 joystick.	<b>\$34</b>
<b>002861B</b> <i>photo not available</i>	<b>Mounting Bracket, ASV Turret Joystick Box</b>	<b>\$73.41</b>
<b>002963A</b> <i>photo not available</i>	<b>Rubber Pad, 2.38" x 1.5", ASV Circuit Box</b>	<b>\$2.85</b>

Specifications and pricing subject to change without notice.

### 5. Medical Product Line

	<b>ELECTRIC MUSCLE STIMULATOR</b> The CS6101 is a clinical-grade portable electrical muscle stimulator using the interferential protocol. This product requires a doctor's prescription per FDA 510(k) clearance.	Call For Pricing
	<b>ELECTRIC MUSCLE STIMULATOR</b> The CS6102 is a clinical-grade portable electrical muscle stimulator using the high voltage galvanic protocol. This product requires a doctor's prescription per FDA 510(k) clearance.	Call For Pricing

**All NSN numbers listed below are available commercially for purchase.**  
**Please call: 630 806-7062 Ext. 206**

#### NSN's for Cage Code = 4B8D1











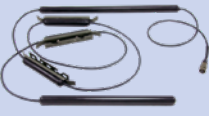
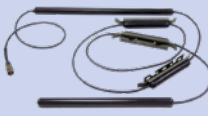
Part Number	Item Name	NSN
CS3209B	JOYSTICK,DATA ENTRY	1290015524497
CS3208B	CONTROLLER,MOTOR	6110015524505
ASM000135	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600229
ASM000135B	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600229
ASM000134	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600238
ASM001175A	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600238
ASM000127	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600249
ASM000127B	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600249
ASM000130	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600255
ASM000130B	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600255
ASM000125	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600279
ASM000131	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600284
ASM000131B	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600284
ASM000216	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015600297
CS3217	CONTROL,INFRARED SET	5855015609102
CS3217A	CONTROL,INFRARED SET	5855015609102
ASM000355A	SWITCH,ELECTRONIC	5930015684441
ASM000355E	SWITCH,ELECTRONIC	5930015684441
ASM000364A	CABLE,POWER,ELECTRICAL	6145015684442
ASM000364B	CABLE,POWER,ELECTRICAL	6145015684442
CS3225	CONTROL BOX,ELECTRICAL/ELECTRONI	2540015684448
CSI-CS3225	CONTROL BOX,ELECTRICAL/ELECTRONI	2540015684448
CSI-CS4102	BATTERY ASSEMBLY	6140015696570
ASM000363A	CABLE ASSEMBLY,CONTROL	2590015707232
ASM000363D	CABLE ASSEMBLY,CONTROL	2590015707232
CSI-CS3241	DOOR,VEHICULAR	2510015730461
CSI-CS3240	DOOR,VEHICULAR	2510015730464
CS3218	JOYSTICK CONTROL	5999015738843
12504382	KIT,CAPACITOR REPLACEMENT	5910015745562
ASM000540C	ASV CABLE ASSEMBLY	-
ASM000560A	SENSOR,CURRENT	6625015749838
ASM000560C	SENSOR,CURRENT (duplicate NSN?)	6625015749838
ASM000561A	SAFETY STRIP SENSOR	2590015749859
ASM000561C	SAFETY STRIP SENSOR	2590015749859
ASM000351D	SWITCH,PUSH-PULL	5930015750786
CSI-ASM000351A	SWITCH,PUSH-PULL	5930015750786
AMS000414A	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015873182
AMS000414B	CABLE ASSEMBLY,SPECIAL PURPOSE	6150015873182
CS3248	CONTROLLER,MOTOR	6110015928676
CS3249	CONTROLLER,MOTOR	-
CS3226	CONTROLLER,MOTOR	-

Specifications and pricing subject to change without notice.



**PDS components listed below are available commercially for purchase.  
Pricing depends on vehicle and/or customer requirements.**

***Please call for a quote on your specific application: 630 806-7062 Ext. 206***

Power Door System CS3412					
CS3404 Left Door			CS3405 Right Door		
	Part No.	Description		Part No.	Description
	CS3404	Power Door System – Left		CS3405	Power Door System – Right
	CS3225-1	In Door Controller		CS3225-1	In Door Controller
	ASM001553	Hydraulics Assembly		ASM001552	Hydraulics Assembly
	CS4102	Battery		CS4102	Battery
	ASM000994	E-Stop Switch Assembly		ASM000994	E-Stop Switch Assembly
 5 segment shown	ASM001286	Safety Strip Sensor Assembly	 5 segment shown	ASM001286	Safety Strip Sensor Assembly
No Photo	CS3410	Hardware Kit	No Photo	CS3410	Hardware Kit

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CONTROL SOLUTIONS LLC™  
2520 Diehl Road, Aurora, Illinois 60502  
Tel: 630.806.7062 Fax: 630.806.7065  
www.controls.com

# Special Order Price List

The majority of our products are sold through OEMs who integrate our products into other systems. Some of our products are commercially-available and can be referenced by reviewing the table listed below. **Prices reflect our published cost for products. Contact us for an updated pricing quote. Call: 630 806-7062 Ext. 206**

Model # Series	Photo	Description	CS Part Number	Color	Compliant with Part Number	NSN Number	Price
CS3209		JOYSTICK ACTUATOR The CS3209 Series Joysticks are a single-axis joystick (left-right or up-down motion) that has been developed for industrial and commercial applications in tough environments and harsh conditions.	CS3209A	Green	6W728-6440293-01M1	-	\$2,195
			CS3209A-1	Green	19200-13064341-G	-	\$2,195
			CS3209B	Tan	6W728-6440293-200M1	1290-01-552-4497	\$2,195
			CS3209B-1	Tan	19200-13064341	-	\$2,195
CS3248		ITDS: PROGRAMMABLE DC MOTOR CONTROLLER The CS3248 Series is a 2nd-generation controller for the Improved Turret Drive System with a higher capacity motor, one additional control input and an external programming port.	CS3248C	Tan	6W728-6459609-200M1	-	\$6,395
			CS3248C-1	Tan	19200-13064367	-	\$6,395
			CS3248D	Green	6W728-6459609-01M1	-	\$6,395
			CS3248D-1	Green	19200-13064367-G	-	\$6,395
CS3249		LRAS: LOW PROFILE DC MOTOR CONTROLLER The CS3249 Series has the input/output and power ports that are located on the side of controller as opposed to the top. The top has special standoff mounting plate.	CS3249-1	Tan	-	-	\$6,895
			CS3249G-1	Green	-	-	\$6,895
ASM000125B		BATTERY POWER CABLE ASSEMBLY The ASM000125B cables are an industrial grade assembly used to connect the auxiliary batteries to the fuse negative terminal. This cable can be adapted with different vehicle power terminations.	ASM000125B	-	-	6150-01-560-0279	\$34
			ASM000125B-1	-	19200-13064354	-	\$34
			ASM000125B-2	-	6W728-6432542-01M1	-	\$34
ASM000127B		CABLE ASSEMBLY The ASM000127B cables are an breakout cable to vehicle BUS cable assembly.	ASM000127B	-	-	6150-01-560-0249	Call
			ASM000127B-1	-	19200-13064353	-	Call
			ASM000127B-2	-	6W728-6432538-01M1	-	Call
ASM000216A		VEHICLE POWER CABLE ASSEMBLY The ASM000216A cables are an industrial grade assembly designed for the breakout connection to the motor controller. The breakout connector is a standard 2-wire battery connector commonly used for forklift truck batteries.	ASM000216A	-	-	6150-01-560-0297	\$299
			ASM000216A-1	-	19200-13064352	-	\$299
			ASM000216A-2	-	6W728-6435382-01M1	-	\$299
ASM000130B		VEHICLE POWER CABLE ASSEMBLY The ASM000130B cables are an industrial grade assembly used to connect the motor controller from the vehicle power bus to the fuse. This cable can be adapted with different vehicle power terminations.	ASM000130B	-	-	6150-01-560-0255	\$69
			ASM000130B-1	-	19200-13064349	-	\$69
			ASM000130B-2	-	6W728-6432541-01M1	-	\$69
ASM000131B		VEHICLE POWER CABLE ASSEMBLY The ASM000131B cables are an industrial grade assembly used to connect the auxiliary batteries to the fuse positive terminal. This cable can be adapted with different vehicle power terminations.	ASM000131B	-	-	6150-01-560-0284	\$59
			ASM000131B-1	-	19200-13064348	-	\$59
			ASM000131B-2	-	6W728-6432543-01M1	-	\$59
ASM000135B		VEHICLE POWER CABLE ASSEMBLY The ASM000135B cables are a 24 volt DC power cable with 2 #6AWG conductors in heat shrink tubing terminating in Amphenol 2-pin connector Mli-C-5015.	ASM000135B	-	-	6150-01-560-0229	\$448
			ASM000135B-1	-	19200-13064351	-	\$448
			ASM000135B-2	-	6W728-6432531-01M1	-	\$448
ASM001175		JOYSTICK/THUMB CABLE The ASM001175 cables are an industrial grade insulated connection cable that provides a connection between motor controller and joystick or thumb drive. This cable is 57" long with 3 conductors.	ASM001175A	-	-	6150-01-560-0238	\$425
			ASM001175A-1	-	19200-13064350	-	\$425
			ASM001175A-2	-	6W728-6432535-01M1	-	\$425

Specifications subject to change without notice.



Control Solutions LLC corporate headquarters and manufacturing located in the western suburbs of Chicago, Illinois

This is our published commercial price list for our products. As such, list prices are effective as of 1/29/2022 and are subject to change without notice. Prices do not include applicable taxes, shipping & handling. To check the most accurate and latest list price, please contact us. If you send us a written Purchase Order based on this price list, we will respond with a firm fixed-price quotation. Each quotation will have a stated "valid until" date range. Additionally, stair-step quantity discount pricing is available for all of our products. Please contact us at:

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Aurora, IL 60502  
Phone: 630.806.7062 Ext. 206  
Fax: 630.806.7065  
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Email: [sales@controls.com](mailto:sales@controls.com)