

# Chameleon Carousel Controls™

## A Truly Universal Solution

Have you been told that your carousel is no longer supported or obsolete?  
Are you having a hard time finding the parts you need to keep you up and running?

**With a Chameleon Carousel Controls™ solution from SJF, your carousel can be up-to-date and operational again!**

**Call our Sales Department Today at 800-598-5532**

*What is a Chameleon Carousel Controls™ solution from SJF?*



**Chameleon Carousel Controls™ use commercially available components combined with sophisticated software techniques to make your carousel fully operational.**

Chameleon Carousel Controls™ from SJF are designed to work with ANY vertical or horizontal carousel - regardless of make, model, age or size.

We have a fully operational solution for you, based on **your** equipment and **your** needs. We replace the components necessary for a working system. This includes, controls, motors, motor drives, encoders, proximity switches, photo eyes, power supplies, human machine interface and more.

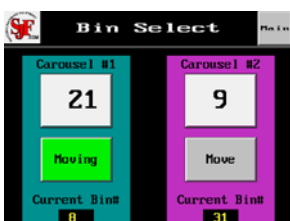


**A Chameleon system consists of a control panel and a touch screen**

*What can I expect my Chameleon Carousel Controls™ system to do?*

You can expect the functionality of a basic system to operate the carousel in both automatic and manual modes, as well as display error conditions to help resolve running issues.

- **Select a Bin Location to Automatically be brought around**
- **Run the carousel in Manual or Jog Mode**
- **Diagnose error conditions**
- **Manual Bypass Operation**
- **Automatically "Home" the carousel** (encoder type carousel)
- **Position the carousel at any location** (proximity type carousel)



# Chameleon

## Carousel Controls™

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### Controls Packages

480VAC 3-phase

Part Number	Carousels	Size
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#### Two Motor Horizontal Carousels

##### Horizontal / Encoder Type / Control Panel with Touch Screen

CCSEH10CA42-A1W	Single Carousel	1 H.P.
CCDEH10CA44-A2W	Dual Carousel	1 H.P.
CCSEH15DA42-A1W	Single Carousel	1.5 H.P.
CCDEH15DA44-A2W	Dual Carousel	1.5 H.P.
CCSEH20EA42-A1W	Single Carousel	2 H.P.
CCDEH20EA44-A2W	Dual Carousel	2 H.P.

##### Horizontal / Encoder Type / Control Panel / Touch Screen Pedestal

CCSEH10CA42-B1W	Single Carousel	1 H.P.
CCDEH10CA44-B2W	Dual Carousel	1 H.P.
CCSEH15DA42-B1W	Single Carousel	1.5 H.P.
CCDEH15DA44-B2W	Dual Carousel	1.5 H.P.
CCSEH20EA42-B1W	Single Carousel	2 H.P.
CCDEH20EA44-B2W	Dual Carousel	2 H.P.

##### Horizontal / Encoder Type / Control Panel / Touch Screen Pedestal - Extended Distance

CCSEH10CA42-B1X	Single Carousel	1 H.P.
CCDEH10CA44-B2X	Dual Carousel	1 H.P.
CCSEH15DA42-B1X	Single Carousel	1.5 H.P.
CCDEH15DA44-B2X	Dual Carousel	1.5 H.P.
CCSEH20EA42-B1X	Single Carousel	2 H.P.
CCDEH20EA44-B2X	Dual Carousel	2 H.P.

#### Single Motor Vertical Carousels

##### Vertical / Proximity Type / Control Panel / Carousel Mounted Touch Screen

CCSPV10AA41-E1W	Single Carousel	1 H.P.
CCSPV15BA41-E1W	Single Carousel	1.5 H.P.
CCSPV20CA41-E1W	Single Carousel	2 H.P.

##### Vertical / Encoder Type / Control Panel / Carousel Mounted Touch Screen

CCSEV10AA41-E1W	Single Carousel	1 H.P.
CCSEV15BA41-E1W	Single Carousel	1.5 H.P.
CCSEV20CA41-E1W	Single Carousel	2 H.P.

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## Part Number Key

CHAMELEON CAROUSEL CONTROLLER PART NUMBERS										
C C	S	E	H	1 5 A	C 4	2	-	B	1	X
Model	Number of Carousels	Control Type	Carousel Type	Motor Size	VFD Size	# of Motors		Panel Configuration	Panel Operators	Comm.
CC	S-Single D-Dual	E-Encoder P-Proximity	H-Horizontal V-Vertical	10-1 H.P. 15-1.5 H.P. 20-2 H.P. 30-3 H.P. A-480 B-240 Z-Custom	A-1 H.P. B-1.5 H.P. C-2 H.P. D-3 H.P. E-5 H.P. Z-Custom 2-240VAC 4-480VAC	#		A-Control Panel Horizontal with Touch Screen B-Control Panel & Pedestal E-Control Panel Vertical F-No Control Panel Z-Custom	1-Single Operators 2-Dual Operators 9-Custom	W-RS232 X-RS485

**Call our Sales Department Today  
To Assist You in Choosing the  
Right System for You.**

**800-598-5532**

Custom solutions available



# Chameleon

## Carousel Controls™

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## Features List

### Horizontal / Encoder Type / Control Panel with Touch Screen

#### Control Panel

- NEMA 4 Single Door Wall Mount 36X30X10 IN
- Controller
- 8" TFT Touch Screen
- MAN-OFF-AUTO Operators
- FORWARD & REVERSE Manual Control Operators
- ESTOP Mushroom Operators
- RESET Operators
- Safety Rated Master Control Relay (MCR)
- Motor Starters with Overloads
- Circuit Breaker Protection

#### Motors and Drives

- Inverter Duty Motors - 2(Single) or 4(Dual)
- Variable Frequency Drives - 1(Single) or 2(Dual)

#### Junction Boxes

- NEMA 4 Lift Off Cover 6X6X4 IN - 1(Single) or 2(Dual)

#### Devices and Cables

- Incremental Encoders
- Proximity Sensors
- Safety Photo eyes
- 50' (Single) or 100' (Dual) Encoder Cable BELDEN or Equivalent
- 50' (Single) or 100' (Dual) Devices Cable BELDEN Cable or Equivalent

### Horizontal / Encoder Type / Control Panel / Touch Screen Pedestal

#### Control Panel

- NEMA 4 Single Door Wall Mount 36X30X10 IN
- Controller
- MAN-OFF-AUTO Operators
- FORWARD & REVERSE Manual Control Operators
- Safety Rated Master Control Relay (MCR)
- Motor Starters with Overloads
- Circuit Breaker Protection

#### Pedestal

- NEMA 12 Desktop Console 12X12X9 IN
- NEMA 12 Straight Pedestal 4X4X35 IN
- NEMA 12 Base 18X18X1 IN
- 8" TFT Touch Screen
- ESTOP Mushroom Operators
- RESET Operators

#### Motors and Drives

- Inverter Duty Motors - 2(Single) or 4(Dual)
- Variable Frequency Drives - 1(Single) or 2(Dual)

#### Junction Boxes

- NEMA 4 Lift Off Cover 6X6X4 IN - 1(Single) or 2(Dual)

#### Devices and Cables

- Incremental Encoders
- Proximity Sensors
- Safety Photo eyes
- 50' (Single) or 100' (Dual) Encoder Cable BELDEN or Equivalent
- 125' (Single) or 250' (Dual) Device Cable BELDEN or Equivalent
- 50' RS232 Cable BELDEN or Equivalent

# Chameleon

## Carousel Controls™

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## Features List

### Horizontal / Encoder Type / Control Panel / Touch Screen Pedestal - Extended Distance

#### Control Panel

- NEMA 4 Single Door Wall Mount 36X30X10 IN
- Controller
- MAN-OFF-AUTO Operators
- FORWARD & REVERSE Manual Control Operators
- Safety Rated Master Control Relay (MCR)
- Motor Starters with Overloads
- Circuit Breaker Protection

#### Pedestal

- NEMA 12 Desktop Console 12X12X9 IN
- NEMA 12 Straight Pedestal 4X4X35 IN
- NEMA 12 Base 18X18X1 IN
- 8" TFT Touch Screen
- ESTOP Mushroom Operators
- RESET Operators

#### Motors and Drives

- Inverter Duty Motors - 2(Single) or 4(Dual)
- Variable Frequency Drives - 1(Single) or 2(Dual)

#### Junction Boxes

- NEMA 4 Lift Off Cover 6X6X4 IN - 1(Single) or 2(Dual)

#### Devices and Cables

- Incremental Encoders
- Proximity Sensors
- Safety Photo eyes
- RS232 to RS485 Converters
- 100' (Single) or 200' (Dual) Encoder Cable BELDEN or Equivalent
- 250' (Single) or 500' (Dual) Device Cable BELDEN or Equivalent
- 150' RS485 Cable BELDEN or Equivalent

### Vertical / Control Panel / Carousel Mounted Touch Screen

#### Control Panel

- NEMA 4 Single Door Wall Mount 30X24X10 IN
- Controller
- 8" TFT Touch Screen
- MAN-OFF-AUTO Operator
- FORWARD & REVERSE Manual Control Operators
- ESTOP Mushroom Operator
- RESET Operator
- Safety Rated Master Control Relay (MCR)
- Motor Starter with Overload
- Circuit Breaker Protection

#### Motors and Drives

- Motor Type Varies per application
- Variable Frequency Drive

#### Devices and Cables

- Proximity Slot Sensor (Proximity Type)
- Proximity Sensor & Incremental Encoder (Encoder Type)
- Encoder Cable BELDEN or Equivalent
- Device Cable BELDEN or Equivalent
- Safety Photo eyes

# Chameleon Carousel Controls™

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## Panel Configurations



Panel Configuration "A1"



Panel Configuration "A2"



Panel Configuration "B2"



Panel Configuration "E1"



# Chameleon Carousel Controls™

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### Customer Worksheet

Company Name:  
Contact Name:  
Phone Number:

**EXISTING:**

Carousel Manufacturer?.....	_____	
Carousel Model?.....	_____	
Carousel Type?.....	Horizontal	Vertical
Control Type?.....	Encoder	Prox(Tabs)
How many Carousel Bins?.....	_____	
Single or Dual Bins?.....	Single	Dual
Number of Motors?.....	1	2
Motor Voltage, Phase & Horsepower?.....	_____	
Motor Type?.....	AC	DC
Motor Manufacturer?.....	_____	
Motor Part Number?.....	_____	
Does Motor Field Wiring Exist?.....	Yes	No
480VAC 3-phase available?.....	Yes	No
Is there a place to mount 36"Lx30"W panel near the 480VAC?.....	Yes	No
Wire length - Control Panel to the front of the carousel?.....		ft.
Wire length - Control Panel to the Touch Screen Pedestal?.....		ft.
How long is the carousel?.....		ft.
Does carousel have foot control?.....	Yes	No
Does Carousel have Safety Mat?.....	Yes	No

**OPTIONS:**

Touch Screen on Control Panel, Pedestal or Carousel?..... Circle One

**CUSTOMER PREPERATIONS:**

Can you prepare a place for the Control Panel?... ..	Yes	No
Can you install 480VAC 3P to Control Panel, VFDs and Motors?.....	Yes	No
Can you provide raceway from Control Panel to Carousel?.....	Yes	No
If using Pedestal, do you have a location for it?.....	Yes	No
Can you provide raceway from Control Panel to Pedestal location?..	Yes	No

*Please send photos of carousels, electrical systems and all devices.*

**NOTES :**

Rev 3.1