

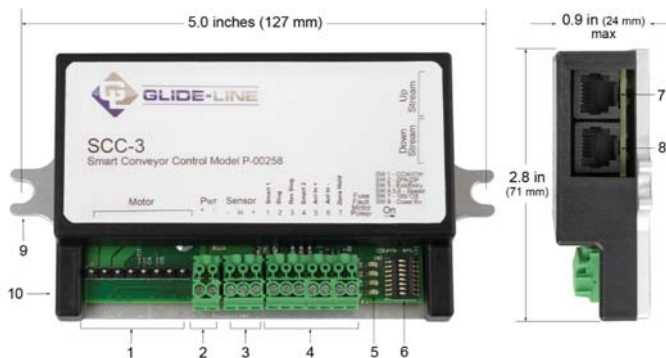
Specifications



The SCC-3 Control is a third generation Smart Conveyor Control that combines a Brushless DC motor control and intelligent conveyor zone control into one compact, cost-effective package. It is easy to install and can be configured for use in several different operating modes.

This new third Generation controller is more robust over its predecessor and may be used with either our 100 Watt or 125 Watt motors.

This product is most useful in typical level, unit handling roller conveyor applications. It can also be used with 5:1, 7.5:1, 10:1 or 20:1 gearbox assemblies that provide a very compact motor/reducer package for light to medium duty pallet handling or industrial applications.



P-00258 SCC-3 Smart Conveyor Control Module

Depending on the setup, the conveyor can operate in the most conservative (ZPA) zero pressure accumulation mode or in small gap (ZIP) mode for maximum throughput. Slug forward and slug reverse operating modes can be applied when accumulation is not required. New features include Dynamic Speed Adjustment (analog input / no potentiometer) and Search and Rescue which finds parcels that otherwise might become lost.

A complete installation manual is available to qualified conveyor original equipment manufacturers (OEMs) that will guide you through the installation, set-up, and the use of the indicator LEDs to troubleshoot any set-up errors.

1. Motor Connection Header
2. +24V DC Power Input Header (plug included)
3. PNP Presence Sensor Connection Header (plug included)
4. User Input-Output Connection Header (plug included)
5. Diagnostic LEDs
6. Configuration Switches
7. RJ-25 Connection to upstream control (plug & cable not included)
8. RJ-25 Connection to downstream control (plug & cable not included)
9. Mounting Plate/Heat Sink
10. Cover



Specifications

Electrical Specifications

	<u>Minimum</u>	<u>Nominal</u>	<u>Maximum</u>
Input Voltage	22.0 VDC	24.0 VDC	28.0 VDC
Input Current	<u>Standby</u>	<u>Rated</u>	<u>Peak</u>
100W24 Motor Series	0.10 Amps	4.0 Amps	5.0 Amps
125W24 Motor Series	0.10 Amps	5.0 Amps	6.3 Amps
PNP Inputs	<u>Minimum</u>		<u>Maximum</u>
Voltage	18.0 VDC		28.0 VDC
Load			3.0 mA
PNP Output	<u>Minimum</u>		<u>Maximum</u>
Voltage	Input -2 VDC		Input VDC
Current			500 mA
Inductive Loads Acceptable			

Environmental Specifications

	<u>Minimum</u>	<u>Maximum</u>
Temperature Limits		
Operating	-4° F (-20°C)	104°F (40°C)
Storage	-40° F (-40°C)	158°F (70°C)
Humidity (non-condensing)	20%	90%

Control Functions

Speed Control		
100W24 Motor Series	56 RPM (5.9 rad/s)	280 RPM (29.3 rad/s)
125W24 Motor Series	70 RPM (7.3 rad/s)	350 RPM (36.7 rad/s)
Speed Control Method		
Default (Preset)	8 Speeds - Switch Selectable	
Override (Dynamic Speed Adjustment)	1-9 VDC Analog Input (Differential)	
Conveyor Operating Modes		
Conventional Zero-Pressure Accumulation (ZPA)		Yes
Small Gap ZIP Mode (For Higher Throughput)		Yes
Entry Zone "Handshake" (PNP Input and Output Signals)		Yes
Exit Zone "Handshake" (PNP Input and Output Signals)		Yes
Slug Operation – Forward		Yes
Slug Operation – Reverse		Yes
Protection	<u>Condition</u>	<u>Response</u>
Over Speed	20% Over Maximum	Apply Dynamic Braking
Stalled Motor	Under 30 RPM	Reduce Current to 2A Output
Over Voltage on Input	Over 28 VDC	Applies Dynamic Braking Immediately
Under Voltage on Input	Under 20 VDC	Applies Dynamic Braking - After 1 Sec. Motor Coasts
Braking Method		
Dynamic Braking	Default Mode Brings Motor to a Halt Quickly	
Zero-Motion Hold	Restricts Parcels on the Conveyor from Coasting	



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