

SC5100

Next Level Integration



SC5100 is the new generation of System Controllers elevating the integration possibilities among high-end stationary Industrial Scanners to the next level of effectiveness, flexibility and ease of installation.

SC5100 has been designed to include native integration throughout the Stationary Industrial Scanner Portfolio (DS/DX Laser readers, AV Imagers, DM Dimensioner) and openness to 3rd Party components (i.e. RFID, scale, IP camera). The result is full support of advanced System Solutions (DWS=Scan-Dim-Weight, BHS=Baggage Handling System, etc.) and open architecture for new application solutions.

Maintaining the compactness and robustness of previous generations, SC5100 now provides a 5 inch color display, augmented visibility of LED indicators and keypad to guarantee exceptional user experience and monitoring efficacy.

All networking connectors are M12 industrial grade making it possible to install the device directly beside conveyor/sorting machinery without encapsulating it in an additional enclosure.

The controller provides all the needed tools for a quick maintenance of the entire system thanks to the possibility to seamlessly reach each component, monitor performance and system health in real-time.

The SC5100 controller can be doubled (two controllers for each system) thus providing a fully redundant connection to a customer's network and reduce downtime risk.

HIGHLIGHTS

- Laser (DS-DX), Imagers (AVs), Dimensioner Native Integration
- 4 GB ETH embedded switch
- RFID and 3rd Party Integration
- Industrial Grade protection (IP65, no need for added enclosure)
- 5 inch Graphical Color display and Clear Status LEDs
- Supports Full Redundant Controller Layout
- Support to Legal For Trade DWS Systems (provide Alibi for scale, DWS systems)
- Built-in Ethernet, Ethernet/IP and optional Profibus and Profinet models
- Access locally or remotely from one point all the connected components

APPLICATIONS

- Parcel Sorting
- Small Package / E-Commerce
- DWS
- Airport BHS
- Retailers / Distribution
- Irregulars / Extra large / Pallets
- Loading / Unloading

ADVANTAGES

- Ease of Integration/Configuration/Monitoring: results in leaner maintenance and troubleshooting lowering the Total Cost of Ownership (TCO)
- Interact directly with Keypad and Display without the need to open an additional enclosure
- Higher system availability, higher productivity

TECHNICAL DATA

ELECTRICAL FEATURES		
Supply Voltage	24 VDC +/- 20%	
Power Consumption	2.8 A Max.	
COMMUNICATION INTERFACES		
Serial Main (isolated): RS-232	1,200 to 115,200 bits/s	
Serial Main (isolated): RS-422 full-duplex	1,200 to 115,200 bits/s	
Serial Aux: RS-232	1,200 to 115,200 bits/s	
EBC and SyncNet Internal Network	100 Mbit/s	
- Profibus (only SC5100-100B / 102B models)	PROFIBUS DP application protocol; up to 12 Mb/s	
- Profinet (only SC5100-100N / 102N model)	PROFINET-IO application protocol; 100 Mb/s	
Alibi Storage (only SC5100-102x models)	'Legal For Trade' Alibi Storage for Scale Weight Data	
- Ethernet TCP/IP (all models)	4 Ports Gb/s ETH Switch; Embedded EtherNet/IP	
DIGITAL I/O		
Inputs (main)	3 polarity insensitive optocoupled inputs: Trigger, Encoder/Tachometer, IN3	
Outputs (main)	3 optocoupled outputs	
Inputs (aux)	3 polarity insensitive optocoupled inputs	
Outputs (aux)	3 optocoupled outputs	
Input/Output	2 configurable Input/Output (PNP or NPN polarity insensitive optocoupled input, or optocoupled output)	
OTHERS		
LCD Display	5 inch graphical color	
Keypad	5 keys	
LED Indicators	Power	Status
	Trig	EBC1/2
	SW-Trig	SyncNet In/Out
	Tach	Eth1
	Eth2	Eth3
	Eth4	
Configuration Modes	e-Genius	
Parameter Storage	Non-volatile extractable SD card	
Operating Temperature	0 to 50 °C / 32 to 122 °F	
Storage Temperature	-20 to 70 °C / -4 to 158 °F	
Humidity	90% non condensing	
Vibration Resistance EN60068-2-6	14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2 g @ 55-500 Hz; 2 hours on each axis	
Shock Resistance EN60068-2-27	30 g; 11 ms; 3 shocks on each axis	
Protection Class EN60529	IP65*	
Mechanical Dimensions	349 x 175 x 89 mm / 13.75 x 6.89 x 3.5 in	
Weight	1.94 kg / 4.3 lb	

*Sealed connectors or connector covers required.

MODELS

PART NUMBER	DESCRIPTION
935750011	SC5100-100B CONTROLLER PROFIBUS
935750010	SC5100-100N CONTROLLER PROFINET
935750008	SC5100-100S CONTROLLER STD
935750014	SC5100-102B CONTROLLER ALIBI PROFIBUS
935750013	SC5100-102N CONTROLLER ALIBI PROFINET
935750012	SC5100-102S CONTROLLER ALIBI

MECHANICAL DRAWINGS

Dimensions in mm

