## SC5000 Industrial Controller





SC5000 is a high performance industrial controller for omnidirectional and multi-side reading tunnels.

At a glance it's a compact box that consists of a front panel with a multiline display, visual indicators, buttons and network connectors, over a body with further connectivity options.

The front panel hides underneath the mother board, a removable compact flash for parameters system backup and controller replacement, and the field bus board.

SC5000 enables easy installation of complex tunnels with the ability to integrate laser devices, imagers and dimensioners. Installation and setup are pretty smooth processes thanks to enhanced internal connectivity for device synchronization EBC. Specialized connectors helps to avoid any human mistake about cabling the system and e-GENIUS, the web-based user interface, enables users to manage the configuration by all the popular webbrowsers and OS.

The controller provides all the needed tools for a quick maintenance of a reading tunnel, monitoring performance and system health in real-time.

SC5000 architecture is fully redundant to avoid single point of failure, this scenario usually consists of two SC5000 connected in a closed ring along with more than one laser device.



#### **HIGHLIGHTS**

- Industrial controller for multi-side reading stations
- e-GENIUS™ web-based user interface
- Display and 5-key keypad for diagnostics and statistics
- Rugged industrial housing
- Ultralight and compact design
- Built-in Ethernet, Ethernet/IP and native Profibus and Profinet models
- Enables management of systems redundancy and fast scanner replacement in cases of failure
- Ethernet Bus Connections (EBC) for high speed data transmission and real time synchronization

#### **APPLICATIONS**

- Sorting for Transportation & Logistics (Express Couriers, Postal applications)
- Sorting for Distribution (large Logistic/Distribution Centers)
- Sorting for Baggage Handling Systems

#### **ADVANTAGES**

- Increased overall product reliability and easy replacement by means of Compact-Flash memory
- •Easy and simple configuration thanks to Datalogic e-GENIUS, web-based user interface
- Compatible with DS8110 and DX8210 devices, DM3610 dimensioners and hybrid integration with AV7000/NVS9000
- No single point of failure thanks to the redundant architecture (double controller, tachometer, photo-eye and closed EBC loop)

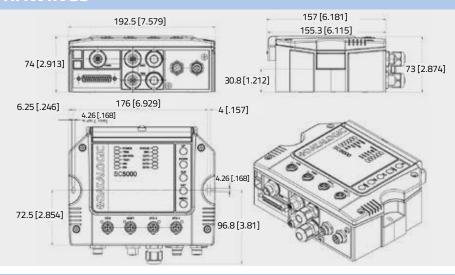
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TECHNICAL DATA			
	ELECTRICAL FEATURES		
Supply Voltage Power Consumption	10 to 30 Vdc (ty	10 to 30 Vdc (typ. 24 Vdc) 0.5 A Max.	
Communication Interfaces Serial Main (isolated) - RS232 - RS422 full-duplex		1200 to 115200 bits/s 1200 to 115200 bits/s	
Serial Aux - RS232	1200 to 11520	1200 to 115200 bits/s	
Ethernet (x2) TCP/IP EBC Internal Network		100 Mbit/s 100 Mbit/s	
Fieldbus - Profibus (only SC5000-1100 model) - Profinet (only SC5000-1200 model) - All models Inputs	PROFINET-IO application Embedded EtherNe 3 polarity insensitive op	PROFIBUS DP application protocol; up to 12 Mb/s PROFINET-IO application protocol; 100 Mb/s Embedded EtherNet/IP; 100 Mb/s 3 polarity insensitive optocoupled inputs: Trigger, Encoder/Tachometer, IN3,	
Outputs	66 .	3 optocoupled outputs	
Input/Output		1 configurable Input/Output (PNP or NPN polarity insensitive optocoupled input, or optocoupled output) USER INTERFACE	
LCD Display		4 lines by 20 characters LCD	
Keypad	5 keys	5 keys	
LED Indicators	POWER TRIG SW-TRIG ENC IN3 IN4 SOFTWARE FEATURES	STATUS EBC OUT1 OUT2 OUT3 OUT4	
Configuration Modes		e-Genius	
Parameter Storage		Non-volatile extractable SD-card	
Operating Temperature Storage Temperature Humidity Vibration Resistance EN 60068-2-6 Shock Resistance EN 60068-2-27	0° to +50°C (+32° -20° to +70°C (-4 90% non cont 14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz 30 g; 11 ms; 3 shock	ENVIRONMENTAL FEATURES  0° to +50 °C (+32° to +122 °F)  -20° to +70 °C (-4° to +158 °F)  90% non condensing  14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2 g @ 70-500 Hz; 2 hours on each axis  30 g; 11 ms; 3 shocks on each axis	
Protection Class EN 60529		IP65*	
Mechanical Dimensions		PHYSICAL FEATURES 192 x 157 x 74 mm (7.57 x 6.18 x 2.91 in)	
Weight		1.5 kg (3.31 lb)	

## **MECHANICAL DRAWINGS**

\* Sealed connectors required



### **MODELS**

DESCRIPTION	PART NUMBER
SC5000-1000 CONTROLLER	935750001
SC5000-1100 CONTROLLER PROFIBUS INTERFACE	935750002
SC5000-1200 CONTROLLER PROFINET INTERFACE	935750003



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