DYNALCO®

Digital Speed Switch & Transmitter

SST7000 Series

Features

- ▶ Accepts 2 or 3-wire speed sensors
- ▶ 0-50 KHz input frequency range
- ▶ 4-20 mA output (isolated)
- ▶ 0-5 or 0-10 VDC linear output
- ▶ 50 msec (std) or 10 msec (opt) response time
- ▶ 0, 1, 2 or 4 SPDT relays
- ▶ Failed (open) pickup sensing
- ▶ Square wave repeater output
- ▶ 10-36 VDC input supply power
- ▶ Available input isolation transformer
- ▶ PC programmable over USB port
- ▶ Front Keypad programmable
  (for models with LCD Display)

Applications

- ▶ Turbomachinery
- ▶ Pumps
- ▶ Speed measurement & overspeed protection of industrial engines

General Specifications*

Input Supply Voltage:	
DC rating (standard)	10-36 VDC, maximum 10 Watts (standard)
AC rating: LCD Display only (-AC Suffix)	AC (and DC) supply voltage on terminals VAC L & VAC N. 115 to 275 VAC & 115 to 400 VDC, with maximum 10 Watts
Input Types:	2-wire magnetic pickup (variable reluctance) 3-wire Hall-Effect 3-wire amplified VR type
Isolated RPM: (-I suffix)	Isolated RPM input from the power supply ground by more than 300V peak
Input Sensitivlty:	From 25 mVRMS to 50 VRMS max
Output Accuracy:	0.1% of full-scale typical for all the outputs
Proportional Output:	4-20 mA (24V sourced - fully isolated) with a resistance <1 kOhm 0-5 or 0-10 VDC with a resistance >20 kOhm 0-1 mA with a resistance <750 Ohm
Relays:	SPDT contacts rated 6 Amps at 28 VDC or 115 VAC Programmable for auto-reset or latching relay functions

Electrical Connection:	Terminal block
Display Informatlon:	RPM, Alarms, Settings (RPM signal, setpoints / relay logic, analog input, security, relay test, setpoint log, and display)
Display screen:	5-digit LCD, 2" x 1.22" screen dimension
Display update rate:	Approx. 7 msec to update LCD display
Mechanical:	DIN rail mount (standard 35 mm)
Environmental:	Operating temperature range: -40°C to +70°C Storage temperature range: -40°C to +80°C
Enclosure rating	NEMA 1
Approvals	CSA Certified Class 1 Division 2, Groups A, B, C & D
Output Power	+12 VDC (40mA) output (e.g. for active magnetic pickups)

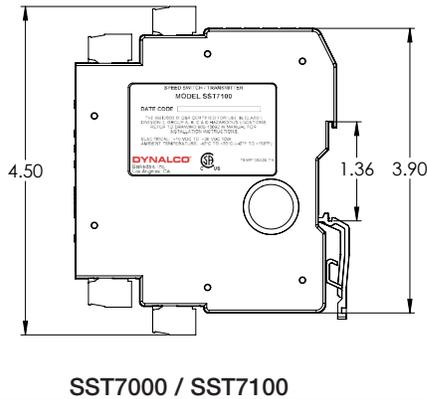*See Product Configurator for more information

Barksdale®
CONTROL PRODUCTS

CRANE Barksdale, Inc./Barksdale GmbH
A Subsidiary of Crane Co.

Digital Speed Switch & Transmitter

SST7000 Series

Technical Drawing*

Dimensions in inch

3.74

3.56

1.00

LED Model
SST7000 / SST7100

4.50

3.66

LED Model
SST7200 / SST7400

4.49

3.65

LCD Model
SST7200D / SST7400D

4.50

1.36   3.90

SST7000 / SST7100

3.29

1.36

.16

2.76

SST7200 / SST7400 / SST7200D / SST7400D

CE
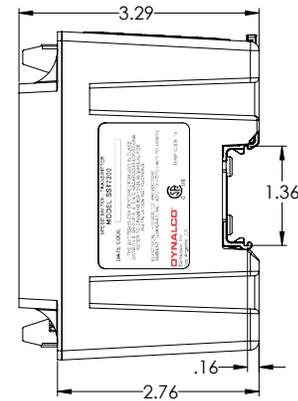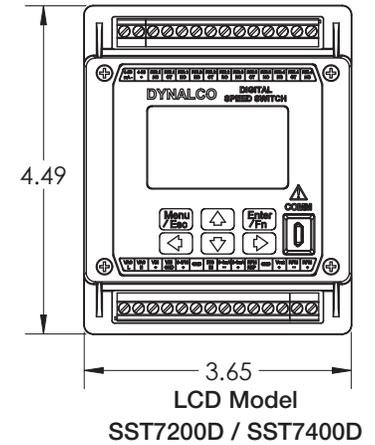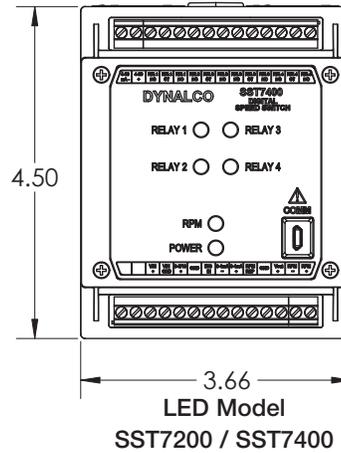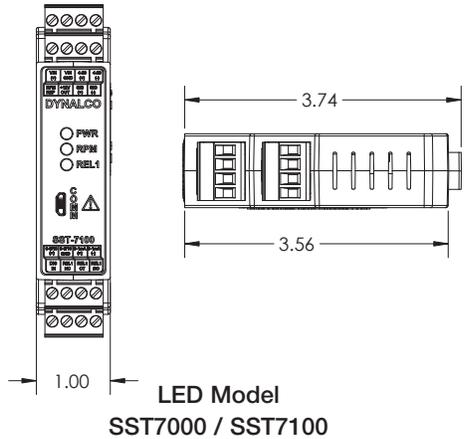
Refer to sales drawing for more information

Product Configurator

Example	SST7	2	00	D	-AC-I-R10

Base Model

SST7	Speed Switch & Transmitter

Number of Relays

0^4	No Relay (Transmitter only)
1^4	1 Relay
2	2 Relays
4	4 Relays

Options

Blank	Standard
$-AC^2$	AC input power
$-I^4$	Isolated input signal
-R10	10 milliseconds response time
$-Q1^3$	Steel mounting clips

Live Status Indication

Blank	LED lights
D^1	LCD display

Accessories

Part Number	Description
270A-105574	Standard USB A to micro USB B 5-pin cable - 3 ft. (included in product package, can also be purchased separately)

Notes
1. Not available for 0 and 1 relay models.
2. Available only for LCD display models.
3. Available only for 2 and 4 relay models.
4. Not CE certified.

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