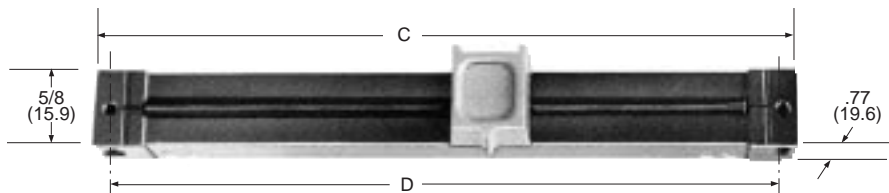
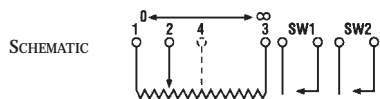


400 SERIES SLIDELINE SENSORS



Duncan 400 Slideline potentiometric controls provide an ideal, human-factored solution for instrumentation and audio/broadcast controls, combining unusually accurate electrical characteristics with a wide variety of output options and fingertip controls to meet exacting customer applications requirements.



ORDERING INFORMATION FOR 400 SERIES SLIDELINE CONTROLS

When ordering a Duncan 400 Series Slideline Control, please specify the following:

- Model Number (add "M" prefix for metric models)
- Number Of Elements (Channels)
 - S = Single D = Dual
- Center Tapped ("T"), otherwise omit
- Function A = Audio B = Balance (Dual)
 - L = Linear D = Dual Wipers (independent)
- Cue Switches
 - Q = Single Pole, Single Throw
 - 2Q = Double Pole, Single Throw
- Value In Ohms (600 - 999 or 1K ohms and above)

Example: 421SL Q1K is a unit having the travel and terminal type shown in the table for Model 421 with a single resistive element. It follows the linear curve with 1K ohms of total end-to-end resistance and has a single-pole, single-throw cue switch.

PERFORMANCE SPECIFICATIONS

L = Linear A = Audio

ELECTRICAL SPECIFICATIONS	L	A
Resistance Range (Ohms):	1K to 100K	600 to 25K
Resistance Tolerance**%:	±20	±20
Linearity Tolerance Std. (%):	±2.0	NA
Taper Conformity (dB):	NA	0-20 dB: +2 >20-50 dB: +4
Tracking (Dual Channel Only) (dB):	4%	0-20 dB: 4 >20-50 dB: 8
End Voltage (%):	1.0	NA
Maximum Insertion Loss (dB):	NA	1.0
Maximum Attenuation (dB) (Three-Terminal Device):	NA	90
Resolution:	INFINITE	
Power Rating at 70°C (Watts):		
Model 421/422	2.5	.25
Model 441/442	4.0	.40

MECHANICAL SPECIFICATIONS

Travel Inches (mm):	Model 421/422	2 3/4 (70)
	Model 441/442	4 1/4 (108)
Actuating Force, Max. oz. (gm.):		3 (85)
Stop Strength lbs. (Newtons):		10 (1.1)
Number of Channels:	Single or Dual in Identical Case	

GENERAL SPECIFICATIONS

Ambient Temperature:	-55°C to +125°C
Taps:	Center Tap Available on Linear Only
Dual Independent Wipers:	Available in Linear Only
Life:	Traverses: 5 million

*Other values available as special. ** Tighter tolerances available as special.

Dimensions shown in inches (metric)

Dimensions

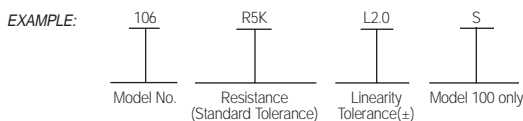
Model	Mech. Travel	C	D	Panel Cutout
421, 422	2 3/4	4 1/4	4.00	1/8 x 3 5/8
M421, M422	70	108	101.6	3 x 92
441, 442	4 1/4	6	5.75	1/8 x 5 1/8
M441, M442	108	152	146	3 x 130

ORDERING INFORMATION

WHEN ORDERING A DUNCAN 100*, 600, 700 OR 9600 SERIES LINEAR POSITION SENSOR, PLEASE SPECIFY THE FOLLOWING:

- Model Number
- Resistance Value (Ω)
- Linearity Tolerance (±%)

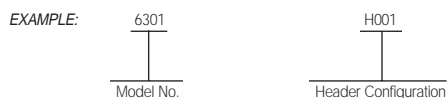
* For 100 Series interface connector, specify "S" (straight, supplied standard with unit), or "R" (optional 90° connector).



ORDERING INFORMATION FOR 6000 SERIES LINEAR POSITION SENSORS

When ordering a Duncan 6000 Series Linear Position Sensor, please specify model number and header configuration:

Model No.	Header Type Configuration
6301	H001 non-pressure H003 external mount pressure header w/lead wires H004 internal mount pressure header w/lead wires H006 with MIL-C-5015 connector interface



Special configurations for Duncan Linear Position Sensors are available. Please consult your Duncan representative or contact the factory for details.



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