



SDS6-2V Display Console Technical

Part No: DRO-SDS6-2V
Doc V: 1.1



- 2 axis universal console with user selectable mode for milling, turning and grinding.
- Robust construction, with die-cast housing and metal front panel.
- Simple operation with advanced functions.
- Full UK written manual.
- Functions include; PCD, line of holes, mm/inch, radius/diameter display, tool offsets.
- Clear and easy read LED display.
- Selectable rotary encoder input for angle readout, with an option to display decimal degrees or degrees, minutes and seconds.

Specifications

Specifications	
Axis input	2
Display type	Green LED
Case material	Die cast aluminum
Keypad type	Membrane with PCB mounted tactile switch
Encoder types	Linear and Rotary (angle readout)
Encoder input	5v TTL 90° quadrature phase difference
Linear resolution settings	0.1, 0.2, 0.5, 1, 2, 5 & 10 micron
Storage temperature	-20°C ~ +55°C
Operating temperature	0°C ~ +45°C
Relative humidity	20% to 85% Non-condensing
Operating voltage	85VAC to 250VAC (50/60 Hz)
Weight	3.2 Kg



Functions

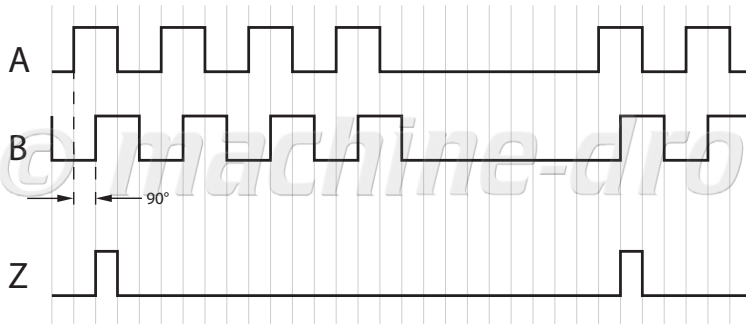
Generic Functions	
mm/inch	Metric/imperial display. Convert you're machine from metric to imperial and vice-versa at the touch of a button
Absolute/incremental	Display position to the user-defined datum (absolute) Display new position relative to the previous position (incremental)
Additional zero datum memory	Store up to 200 sub datum zero positions in the internal memory
Centre find	Calculates half the distance between two selected points
Trigonometric calculator	Standard functions including square root and trigonometric
Angular axis configuration	Linear or Angular display on any axis
Linear Error compensation	Linear or Segmented
Mill Functions	
Pitch circle Diameter (PCD)	For calculating the positions of equally spaced holes around a circle or part circle of a user-defined diameter
Arc contouring	Indicates the step by step machining of an arc or radius, without the need for a rotary table
Line of holes	Calculates the equally spaced position of user-defined number of holes along a straight line at any angle
Angular Set up	Allows a work piece to be aligned at a specified angle.
Lathe Functions	
Radius/Diameter display	Radius mode will display physical travel. Diameter mode will display work piece diameter.
Tool offsets	Store 200 tool zero offsets.
Axis summing	Display the combined travel of carriage and compound slide
Taper calculations	Using two points as reference the console can calculate the taper angle
Grind Functions	
Digital vibration filter	Digital vibration filter reduces readout fluctuation on the display, which can be caused when the surface grinder is under load

Dimensions





Output Signal



- Fitted with 9 pin female D type connector for encoder input.
- For encoder compatibly please check compatibility chart datasheet.

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Signal	N/C	0v	N/C	Screen	N/C	A	+5v	B	Z