ES-8A-3X Display Console Technical

Part No: DRO-ES-8A-3X
Doc V: 1.1

- 3 axis generic console with user selectable mode for milling and turning.
- Robust construction, with die-cast housing.
- Simple operation with advanced functions.
- Functions include; PCD, line of holes, mm/inch, radius/diameter display, axis summing.
- Bright and easy read LED display.

Specifications

Specifications	
Axis input	3
Display type	Green LED
Case material	Die cast aluminum
Keypad type	Membrane with PCB mounted tactile switch
Encoder types	Linear
Encoder input	5v TTL 90º quadrature phase difference
Linear resolution settings	1 or 5 micron
Storage temperature	-20°C ~ +55°C
Operating temperature	0°C ~ +45°C
Relative humidity	20% to 85% Non-condensing
Operating voltage	230V AC ±10% (50/60 Hz)
Weight	Approx # Kg

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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)
Centre find	Calculates half the distance between two selected points
Trigonometric calculator	Standard functions including square root and trigonometric
Linear Error compensation	Linear or Segmented
Mill Functions	
Additional zero datum memory	Store up to 199 sub datum zero positions in the internal memory
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
Lathe Functions	
Radius/Diameter display	Radius mode will display physical travel. Diameter mode will display work piece diameter.
Tool offsets	Store 199 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

Dimensions

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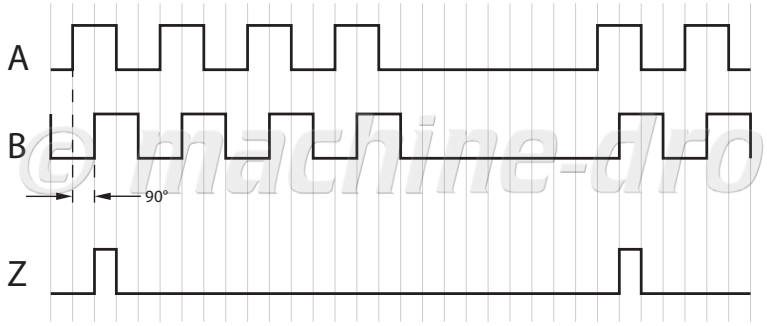
Connection and Input Signal



- Fitted with 9 pin female D type connector for encoder input.
- For compatible encoders 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

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