



**MODELS DILA AND DIRA DISPLAYS
FOR INCREMENTAL ENCODERS**

Models	DILA for linear motion DIRA for rotary motion
Size	11.5"W x 4.0"H x 3.0"D (292 x 102 x 76 mm)
Input power	110V @1.5 A or 220V @750 mA, 50-60 Hz
Display	7½ green 7-segment LEDs, 0.5" (13 mm) high
Input signals	Differential RS-422 quadrature square waves and quarter-cycle index from any linear or rotary incremental encoder. Display performs 4X quadrature decode.
Max input frequency	Standard: 1 MHz square waves (4 MHz count rate) Optional: 10 MHz square waves (40 MHz count rate)
Count direction sense	Switchable from rear panel
Display units	DILA: Millimeters or inches – selectable from front panel DIRA: Decimal degrees or deg.min.sec - selectable from front panel
Front-panel buttons: V R CE inch/mm (DILA only) cont/ang (DIRA only)	Displays in/sec, m/sec, or rev/min velocity. Press again to toggle off Allows encoder's index signal to zero display Zeroes display at current encoder position, or Press after entering position offset from keypad to complete entry Toggles measuring units between inches and millimeters. angle display rolls over ±359.99 to 0 – must be reselected on power up continuous display counts cumulatively through multiple revolutions, up to its 7-digit range – default display mode on power up
Serial output	RS-232 (optional)
Protection	IP54
Temperature	0°C to 40°C (32°F to 104°F)
Relative Humidity	80% @25°C

Pinouts for DA-15S on rear panel

Pin	1	2	4	5	7	8	9	10	13
Function	/IND	IND	/B	B	/A	A	Case	+5V	Com



Ordering Information

	<u>MODEL</u>	<u>RES</u>	<u>SPEED</u>	<u>OUT</u>	<u>POWER</u>	<u>SF</u>
<u>MODEL</u>	DILA	Use with linear encoders				
	DIRA	Use with rotary encoders				
<u>RES</u>	10	000.0001mm				
	11	000.0002				
	12	000.0005				
	13	0000.001				
	14	0000.002				
	15	0000.005				
	16	00000.01	- DILA			
	20	000.0001°	- DIRA			
	21	000.0002°				
	22	000.0005°				
	23	0000.001°				
	24	0000.002°				
	25	0000.005°				
	26	00000.01°				
	27	00000.02°				
	28	00000.05°				
	29	000000.1°				
	30	000000.2°				
	31	000000.5°				
	32	0000001.°				
	33	000°00'01"				
	34	000°00'02"				
	35	000°00'05"				
	36	000°00'10"				
	37	000°00'30"				
	38	000°01'				
	39	000°02'				
	40	000°05'				
	41	000°10'				
	42	000°30'				
<u>SPEED</u>	S	Standard count speed (1 MHz input)				
	H	High count speed (10 MHz input)				
<u>OUT</u>	R	RS-232 output				
	N	No auxiliary output				
<u>POWER</u>	1	110V, 50-60 Hz				
	2	220V, 50-60 Hz				
<u>SF</u>	#	Issued at time of order to cover special customer requirements				
	N	No special features				

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