

Specifications 120E Series



120E Series

Electrical

PARAMETER	MIN.	NOM	MAX.
VCC RANGE (V)	4.75	5	5.25
SUPPLY CURRENT (mA)			30
VOH (V)	2.4		
VOL (V)			.4
PULL-UP RESISTOR (KOhm)		10	
OUTPUT	Channel A leads Channel B by 90 deg electrically, CCW direction		

Environmental

PARAMETER	MIN.	NOM.	MAX.
OPERATING TEMP (Deg C)	-40 deg		+65 deg
STORAGE TEMP (Deg C)	-55 deg		+110 deg
HUMIDITY:	85%RH @ 40 deg C, 240 hr		

Mechanical

VIBRATION:	10 to 2000Hz, 15G Mil Std, Method 204 Test Cond. C
SHOCK:	100G @ 6ms Mil Std. 202, Method 213 Test Cond. C
ROTATIONAL TORQUE:	
Sleeve	1.5 oz. in.*
Ball bearing	.25 oz. in. max.
	*Low torque available
OPERATING SPEED:	600/605-300 RPM 610/615-3000RPM
ROTATIONAL LIFE:	10 mil rev.
SHAFT END PLAY:	.005 max.
SHAFT RADIAL PLAY:	.010 @ 1 in.
SHAFT AXIAL FORCE:	15 lbs. push/pull
TERMINAL STRENGTH:	2 lbs.
WEIGHT:	.74 oz.

Terminals

B66: PC Terminals, horiz. mount
 C24: PC: Terminals, vert. mount
 CBL: 7.5 in. cable
 CN1: 7.5 in. cable with connector

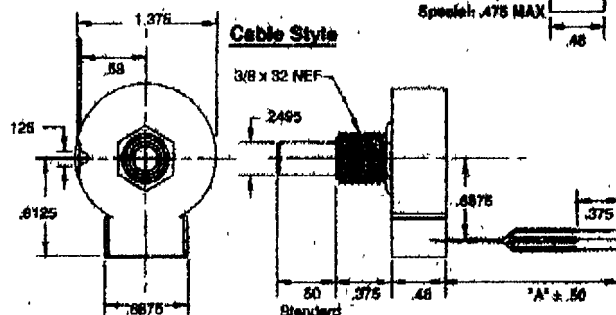


Dimensions 120E Series

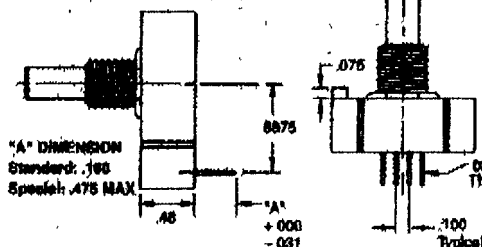
Styles

Series 120E

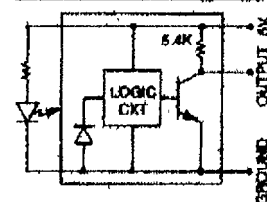
Sleeve Bearing
Sleeve, single channel
Ball bearing
Ball bearing, single channel



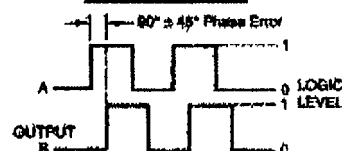
PC Terminals: Type C-24



Block Diagram One Output



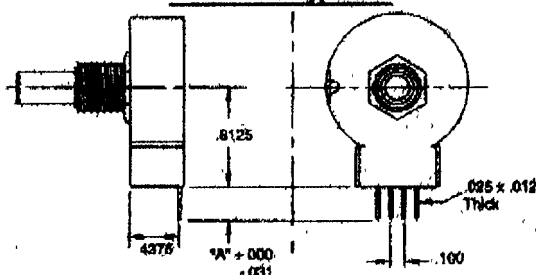
Output Waveform



CCW ROTATION*

*Channel A leads Channel B by 90° electrically in CCW direction

PC Terminals Type B-66



TERM #	FUNCTION
1	5VDC ± 5% @ 50mA MAX
2	"A" Out
3	Ground
4	"B" Out

"A" DIMENSIONS	
Standard	.180
Special	.400 MAX

Dimensional Tolerances, Unless Otherwise Specified

FRACTIONS = ± 1/64 (0.40mm) DECIMALS = ± .005 GRIDS = ± .010 (0.25mm)

NOTE:

- "A" Cable Length Standard 7.50 ± .50
Other lengths available, specified by customer
- "A" and "B" Outputs are TTL compatible on all models

COLOR	FUNCTION
Red	5VDC ± 5% @ 50mA MAX
Green	Ground
Yellow	"A" Out
Orange	"B" Out