

CP-850-HHC, High Count Incremental, shafted



Description:

High count encoders are particularly useful for high resolution measuring systems, telescope control and for controlling slow incremental motion systems. The outputs are conventional quadrature and can be electronically multiplied by "edge detection", yielding four "measuring steps" per cycle. A recirculating quadrature counter is recommended as a receiving device (e.g. HP™ HCTL-2000, 2016, 2020; LSI™ 7166)).

Ordering Information:

CP-850-HHC-(linecount)-(1)-(2)

(1): F=flange, S=servo mount

(2): cable/connector designator A,B,C or D

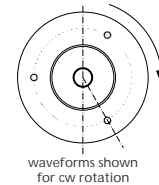
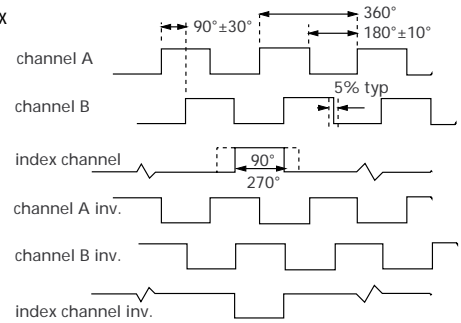
A=rear cable, B=side cable, C=rear connector, D=side connector. Default cable length: 24"

Electrical Data:

power supply: + 5 Vdc ± 10% @ 250 mA max (no load)
 output format: incremental quadrature
 cycles/revolution: 25k, 25.6k, 31.25k, 32k, 50k, 51.2k, 62.5k, 64k, 90k, 100k, 102.4k, 112.5k, 125k, 128k, 156.25k, 180k, 200k, 204.8k, 225k, 250k, 256k, 312.5k, 360k, 400k, 409.6k, 450k, 500k, 512k, 625k, 720k, 819.2k, 900k, 1,000k, 1,024k, 1,250k full A and B cycles per revolution (c/r)

frequency response: 2 MHz. @ 85 °C
 output: linedriver, RS 422 compatible
 absolute accuracy: ± 12 arcsec. typ.
 repeatability: ± 1 count (1/4 cycle)
 overall length: L_{max} = 2.5"

Waveforms:



Wire Color

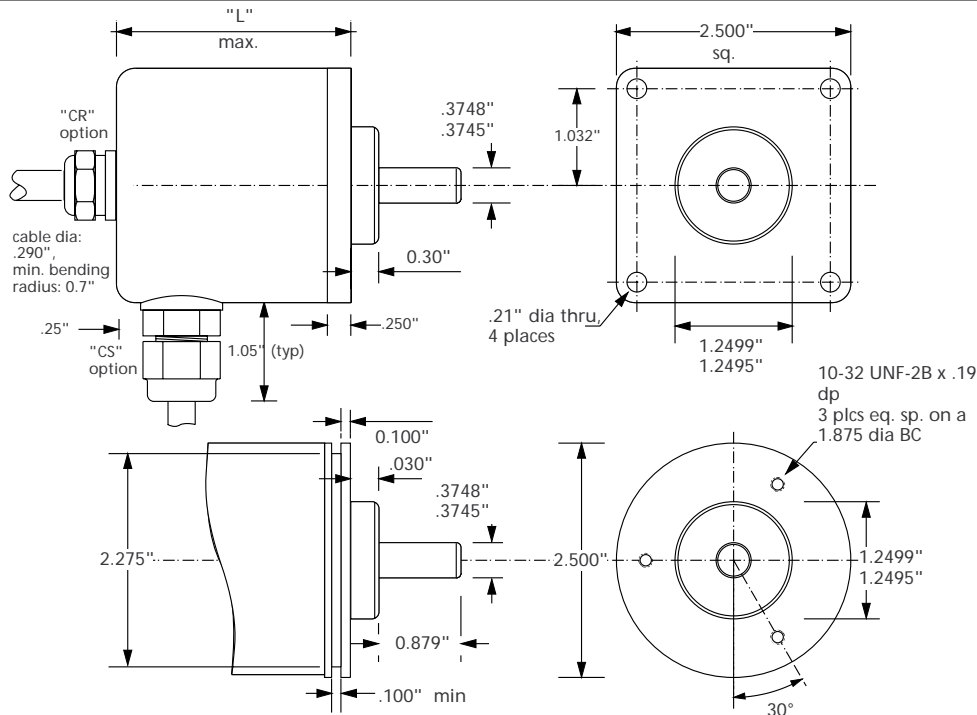
Assignments:

channel A white/orange stripe
 A inv. orange/white stripe
 channel B blue/white stripe
 B inv. white/blue stripe
 index green/white stripe
 index inv. white/green stripe
 + 5 Vdc white/gray stripe
 ground gray/white stripe
 frame cable shield

Standard connector:

DESIGNATION	10 pin conn.
chan. A	A
A inv.	G
chan. B	B
B inv.	H
index	C
index inv.	I
+5 Vdc	E
ground	F
frame	J

10 pin: MS3102R-18-1P





Description:

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Ordering Information:

CP-950-HHC-(linecount)-(1)
 (1): cable/connector designator A,B,C or D

A=rear cable, B=side cable, C=rear connector,
 D=side connector. Default cable length: 24"

Electrical Data:

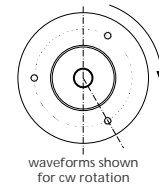
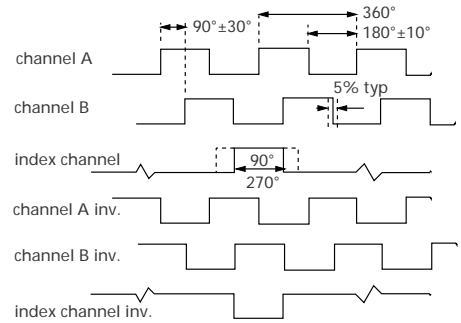
power supply: + 5 Vdc ± 10% @ 250 mA max (no load)
 output format: incremental quadrature
 cycles/revolution: 25k, 25,6k, 31,25k, 32k, 50k, 51,2k, 62,5k, 64k, 90k, 100k, 102,4k, 112,5k, 125k, 128k, 156,25k, 180k, 200k, 204,8k, 225k, 250k, 256k, 312,5k, 360k, 400k, 409,6k, 450k, 500k, 512k, 625k, 720k, 819,2k, 900k, 1,000k, 1,024k, 1,250k full A and B cycles per revolution (c/r)

frequency response: 2 MHz. @ 85 °C
 output: linedriver, RS 422 compatible
 absolute accuracy: ± 12 arcsec. typ.
 repeatability: ± 1 count (1/4 cycle)
 overall length: L_{max} = 2.5"

Wire Color Assignments:

channel A	white/orange stripe
A inv.	orange/white stripe
channel B	blue/white stripe
B inv.	white/blue stripe
index	green/white stripe
index inv.	white/green stripe
+ 5 Vdc	white/gray stripe
ground	gray/white stripe
frame	cable shield

Waveforms:



Standard connector:

DESIGNATION	10 pin conn.
chan. A	A
A inv.	G
chan. B	B
B inv.	H
index	C
index inv.	I
+5 Vdc	E
ground	F
frame	J

10 pin: MS3102R-18-1P

