

**PART NUMBER:** MEH30-4500PST**DESCRIPTION:** incremental encoder**ELECTRICAL SPECIFICATIONS**

output waveform	Square Wave
output signals	A, B, Z phase
current consumption	≤40 mA
frequency response	0~50 KHz X (by multiplication) Line Driver Output 100 kHz Open collector or Open voltage
output phase difference	See output waveform
supply voltage	5 V dc ± 10% (line driver output only), 5~12 V dc ±10% (TTL voltage output only), 5~24 V dc ±10% (open collector output only)
output resolution (ppr)	9000, 18000, 36000, 72000

**MECHANICAL SPECIFICATIONS**

max shaft load, radial:	14.7N (1.5kgf)
axial:	4.9N (0.5kgf)
starting torque	2 x 10 <sup>-3</sup> N·m (20 gf·cm)
max rotational speed	6000 RPM
shock resistance	500 m/s <sup>2</sup> (50G) 3 times each on XYZ
vibration proof	55 Hz, double amplitude 1.5mm, 2 hours each on XYZ
weight	140g (with 1m cable)
cable	4.2mm outside diameter 5-core vinyl wire, insulated shield cable (length 1m)

**ENVIRONMENTAL SPECIFICATIONS**

operating temp	-10° to +70° C
storage temp	-20° to +80° C
humidity	RH 35%~90% non collecting

**ORDERING INSTRUCTIONS****MEH30 - 4500PSTXXX-XX**

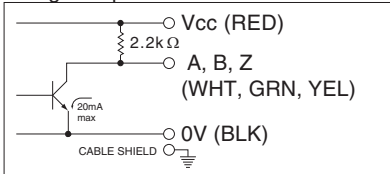
Resolution (PPR): 2 = 4500 X 2 (9,000 PPR) 4 = 4500 X 4 (18,000 PPR) 8 = 4500 X 8 (36,000 PPR) 16 = 4500 X 16 (72,000 PPR)	Output Circuit: "no entry" = TTL voltage output C = Open collector output E = Line driver output	Bore Size: 8 = 8mm 10 = 10mm
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**PART NUMBER:** MEH30-4500PST

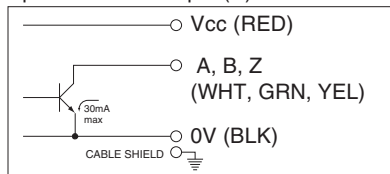
**DESCRIPTION:** incremental encoder

## CIRCUIT CONNECTIONS

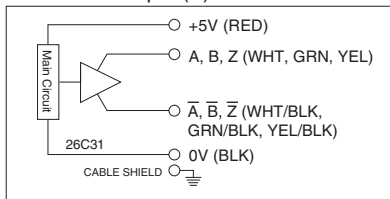
### Voltage Output



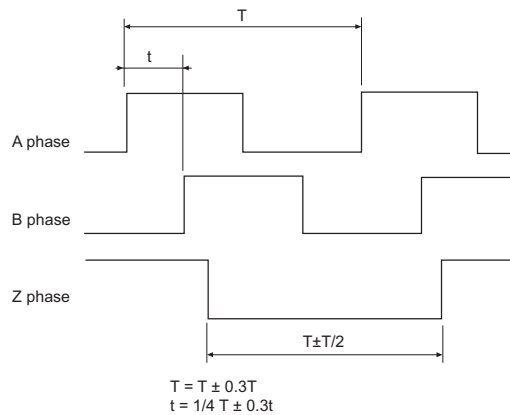
### Open Collector Output (C)



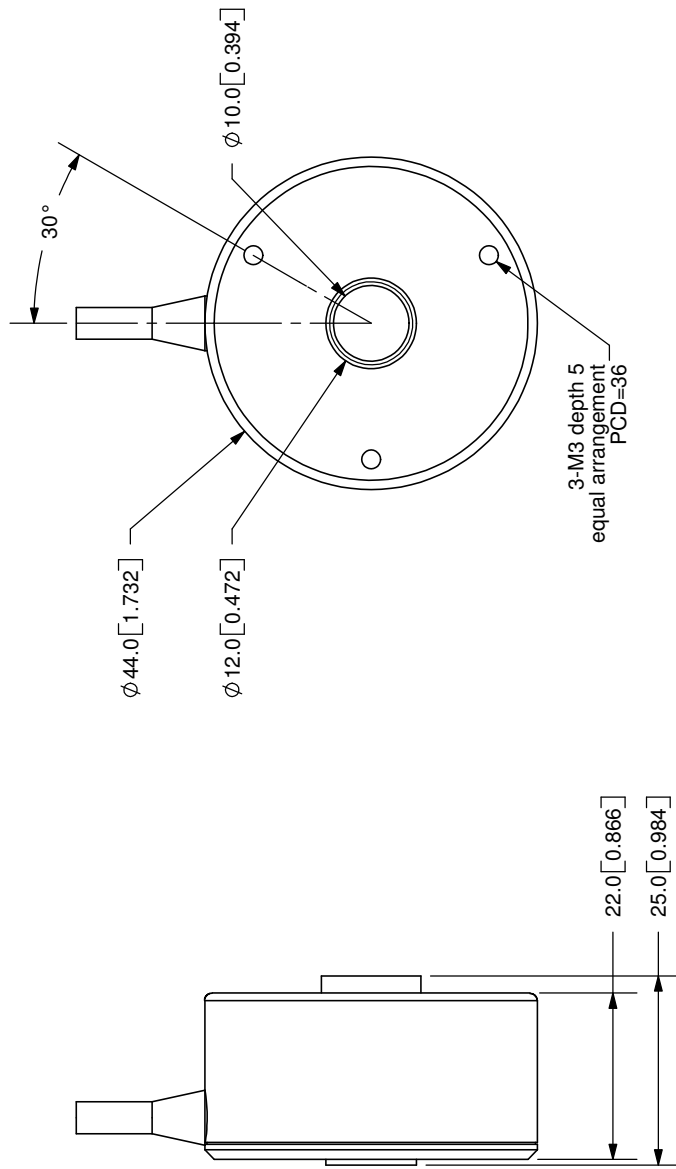
### Line Driver Output (E)



## OUTPUT WAVEFORM



REV.	DESCRIPTION	DATE
A	NEW DRAWING	7/30/2007



TOLERANCE:  
±0.3mm UNLESS OTHERWISE  
SPECIFIED



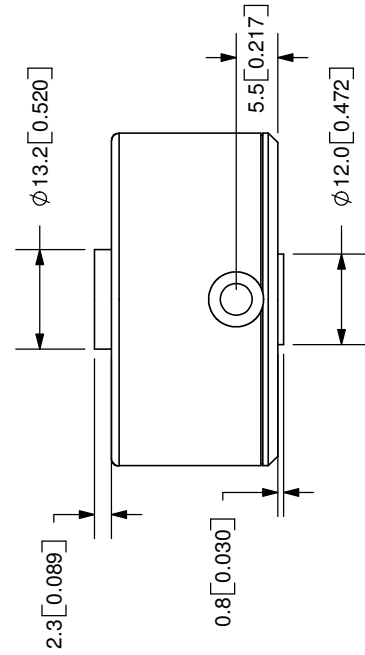
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TITLE: Incremental Encoder REV: A

PART NO: MEH30 UNITS: MM [INCHES]

DRAWN BY: JMS APPROVED BY: SCALE: 1:1



Cable Color	Red	White	Green	Yellow	Black
Output Type	Power	A-Phase	B-Phase	Z-Phase	0V

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PC FILE NAME:  
MEH30