

**PART NUMBER:** MEH17**DESCRIPTION:** incremental encoder**ELECTRICAL SPECIFICATIONS**

output waveform	Square wave
output signals	A, B, Z phase
current consumption	≤30 mA
frequency response	0~50 KHz
output phase difference	A, B phase difference 90° ± 45° (T/4±T/8) Z phase T±T/2 (see output waveform)
supply voltage	5 V ± 10%
output resolution (ppr)	100, 200, 300, 360, 400, 500
waveform rise/fall time	2μ or less

**MECHANICAL SPECIFICATIONS**

max shaft load, radial:	1.9N (200gf)
axial:	1.9N (200gf)
starting torque	1 x 10 <sup>-3</sup> N·m (10 gf·cm max.)
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	20g (with 150mm cable)
cable	Vinyl wire (AWG 28) 150mm cable

**ENVIRONMENTAL SPECIFICATIONS**

operating temp	0° to +50° C
storage temp	-20° to +80° C
humidity	RH 35%~90% non collecting

**ORDERING INSTRUCTIONS****MEH17-XXXP**

Resolution (PPR):

100 = 100 PPR

200 = 200 PPR

300 = 300 PPR

360 = 360 PPR

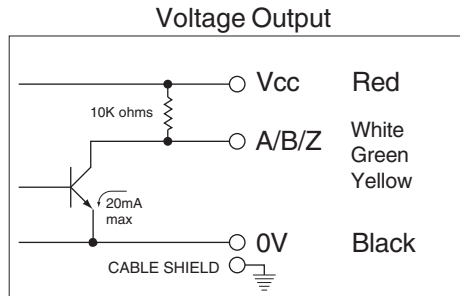
400 = 400 PPR

500 = 500 PPR

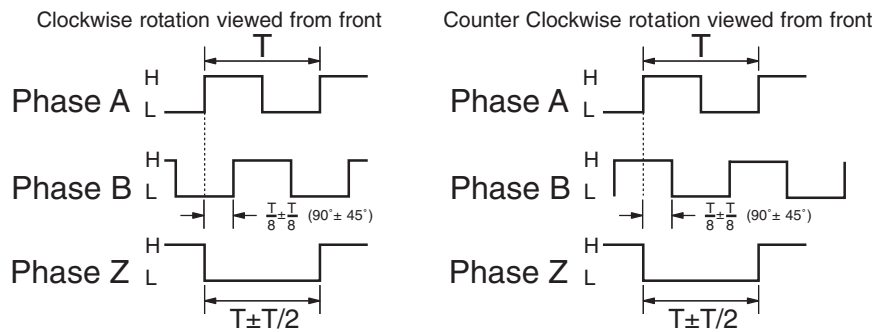
**PART NUMBER:** MEH17

**DESCRIPTION:** incremental encoder

**CIRCUIT CONNECTIONS**

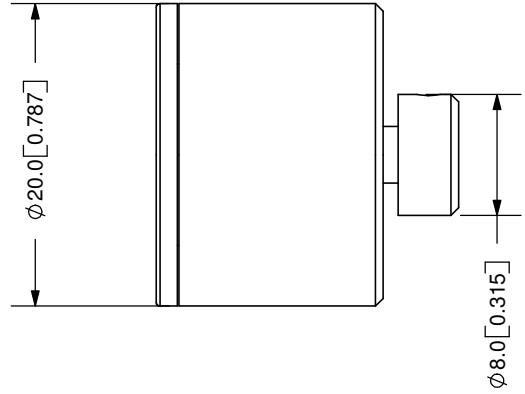
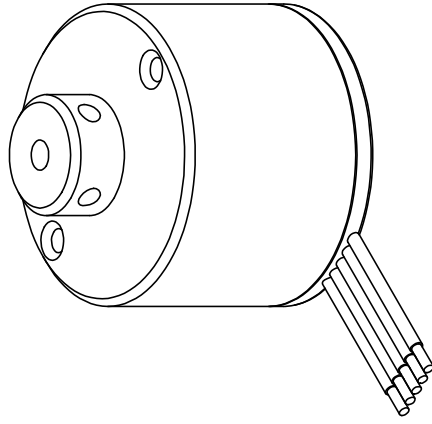
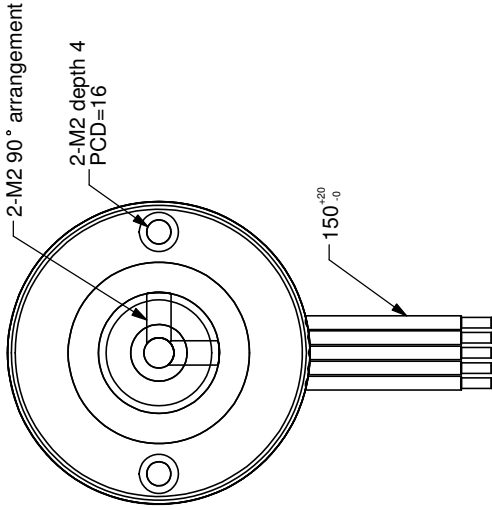
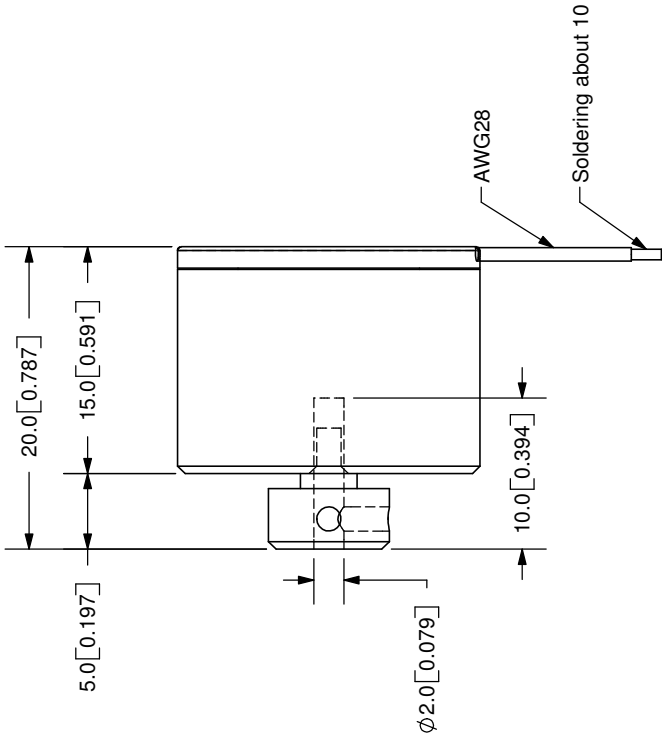


**OUTPUT WAVEFORM**



The position of Z phase against A, B phase is not specified

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



TOLERANCE:  
±0.3mm UNLESS OTHERWISE  
SPECIFIED



**CUI INC**

20050 SW 112th Ave.  
Tualatin, OR 97062  
Phone: 503-612-2300  
800-275-4899  
Fax: 503-612-2383  
Website: www.cui.com

TITLE: Incremental Encoder  
REV: A

PART NO: MEH17  
UNITS: MM [INCHES]

DRAWN BY: JMS  
APPROVED BY: [Signature]  
SCALE: 2:1

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

COPYRIGHT 2007  
BY CUI INC.

PC FILE NAME: MEH17