

**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 ⁻³ N·m (10 gf·cm max.)
max rotational speed	6000 RPM
shock resistance	500 m/s ² (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

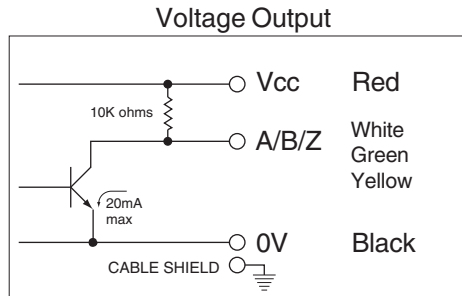
400 = 400 PPR

500 = 500 PPR

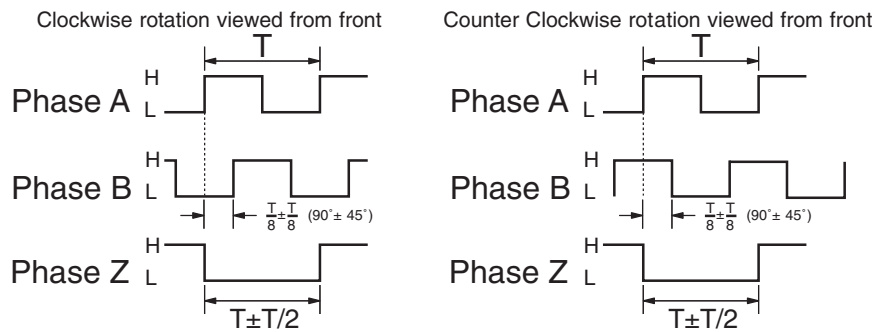
PART NUMBER: MEH17

DESCRIPTION: incremental encoder

CIRCUIT CONNECTIONS

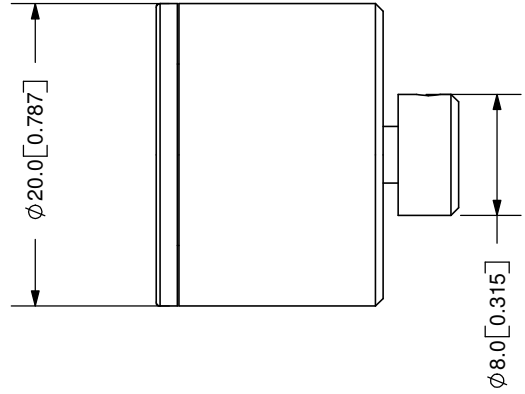
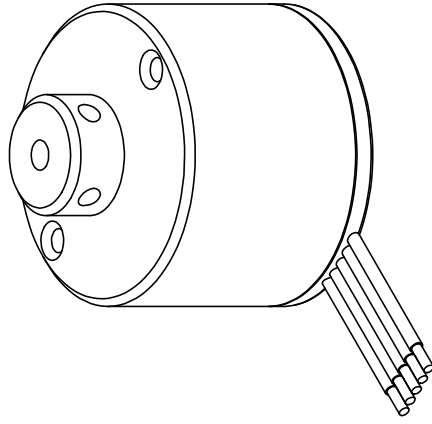
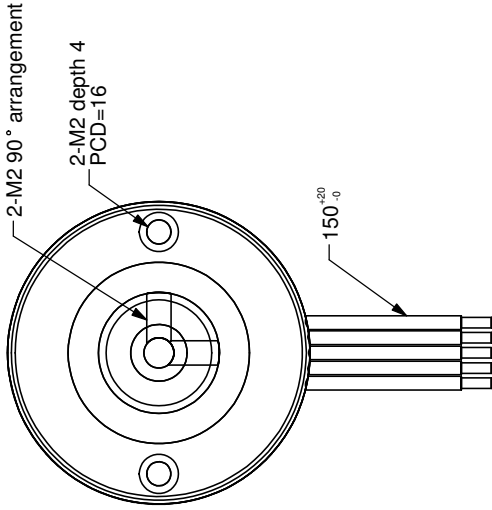
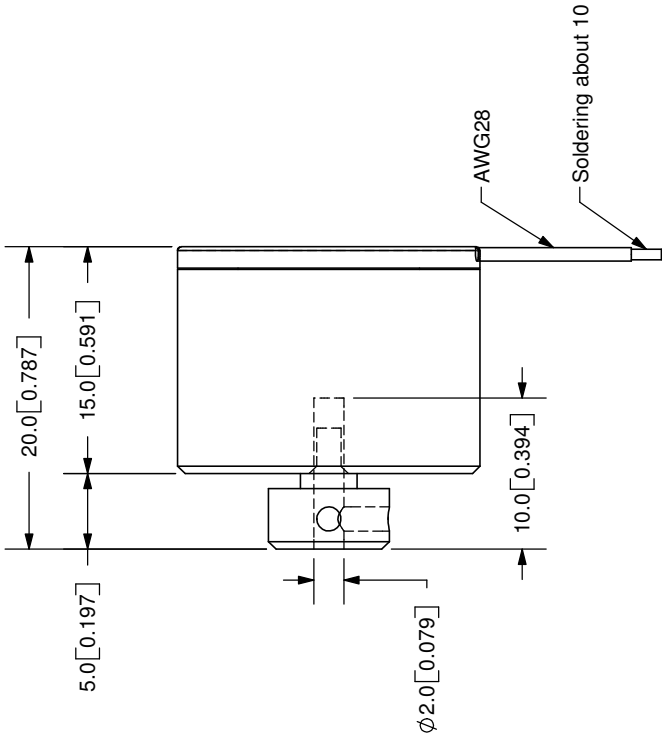


OUTPUT WAVEFORM



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:
SCALE: 2:1

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

COPYRIGHT 2007
BY CUI INC.

PC FILE NAME: MEH17