

PART NUMBER: MAS60

DESCRIPTION: absolute encoder

ELECTRICAL SPECIFICATIONS

output signals	G: gray code, N: pure binary code, B: BCD code
current consumption	300 mA max. (voltage output), 150 mA max. (open collector)
frequency response	40 kbit/sec (10 kbit/sec when accuracy is guaranteed)
output phase difference	90° ± 45°
output circuit / supply voltage	voltage output: 5 V dc -5% ~ 12 Vdc +10% open collector: 5 V dc -5% ~ 24 V dc +15%
output resolution (ppr)	256, 360, 400, 512, 720, 800, 1000, 1024, 2000, 2048, 3600, 4096
output circuit	voltage (TTL), open collector

MECHANICAL SPECIFICATIONS

max shaft load	radial: 5.0 kgf axial: 3.0 kgf
moment of inertia	2.0 g·cm ²
starting torque	2 mN·m typ.
max rotational speed	12000 r/min (simultaneous), 7000 r/min (continuous)
shock resistance	50G, 3 axes, 3 reps
vibration resistance	5~500 Hz, 1.52mm, 2 hrs
weight	570 g

ENVIRONMENTAL SPECIFICATIONS

operating temp	-10° to +70° C
storage temp	-25° to +80° C
humidity	95% RH max., no condensation

ORDERING INSTRUCTIONS

MAS60-XXXX-XX

Resolution (PPR):

256 (G or N)	1000 (B, G or N)
360 (B)	1024 (G or N)
400 (B)	2000 (B, G or N)
512 (G or N)	2048 (G or N)
720(B)	3600 (B)
800(B)	4096 (G or N)

Output Type:

G = Gray Code
N = Natural Binary
B = BCD code

Input Voltage:

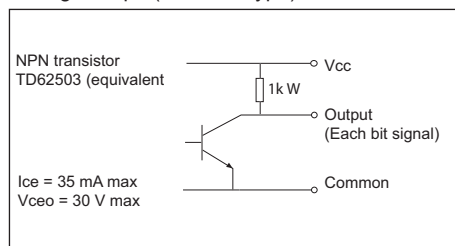
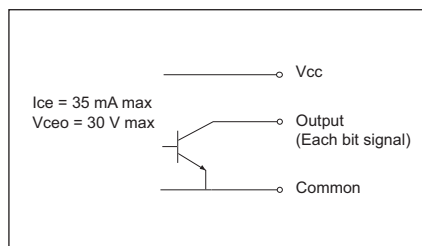
1 = 5VDC -5% ~ 12Vdc ±10%
(voltage output only)
2 = 5VDC -5% ~ 24Vdc ±15%
(open collector only)



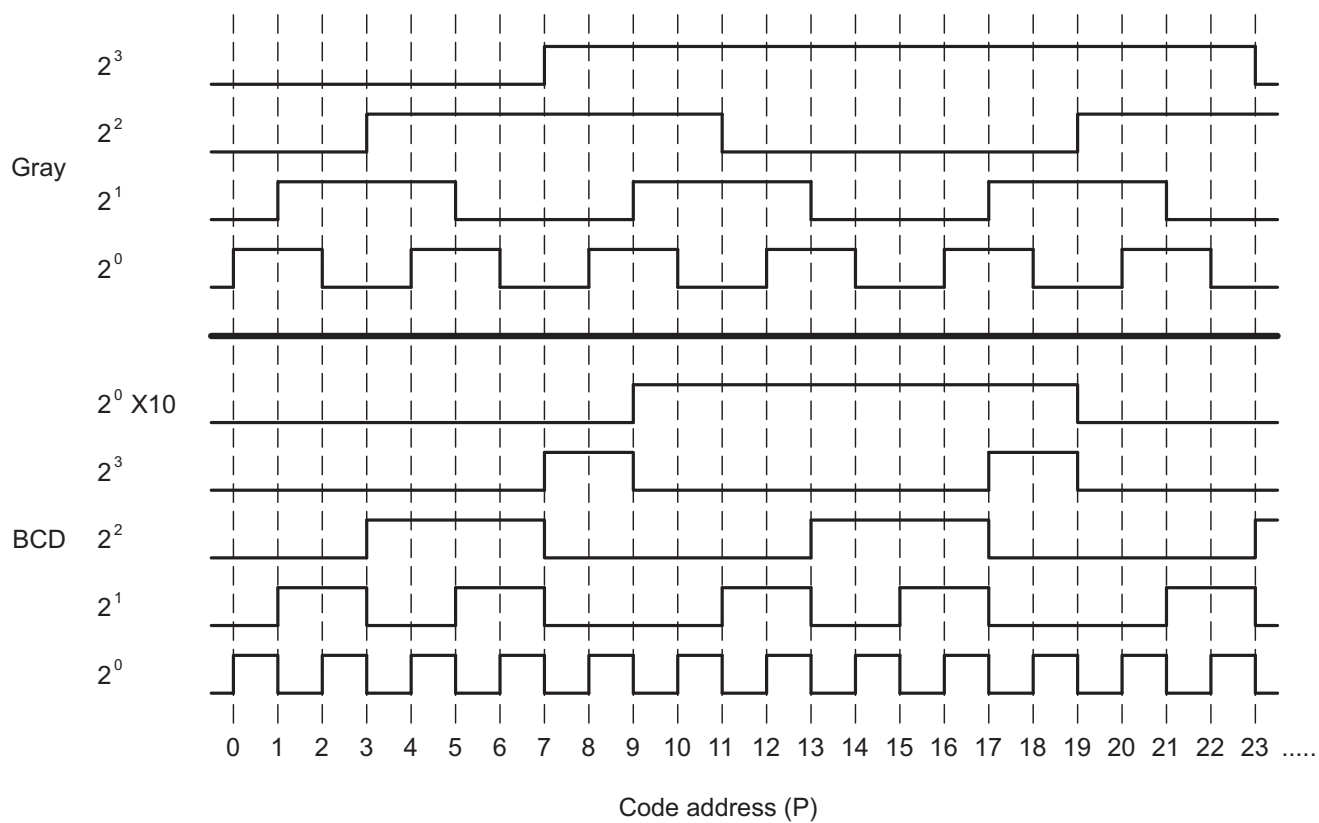
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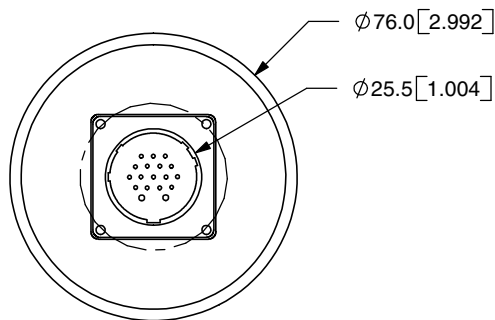
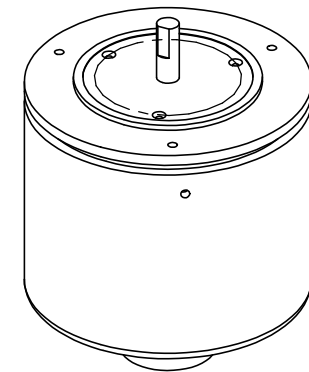
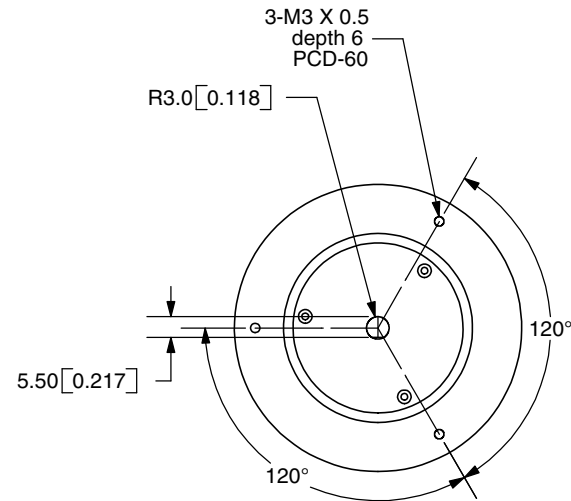
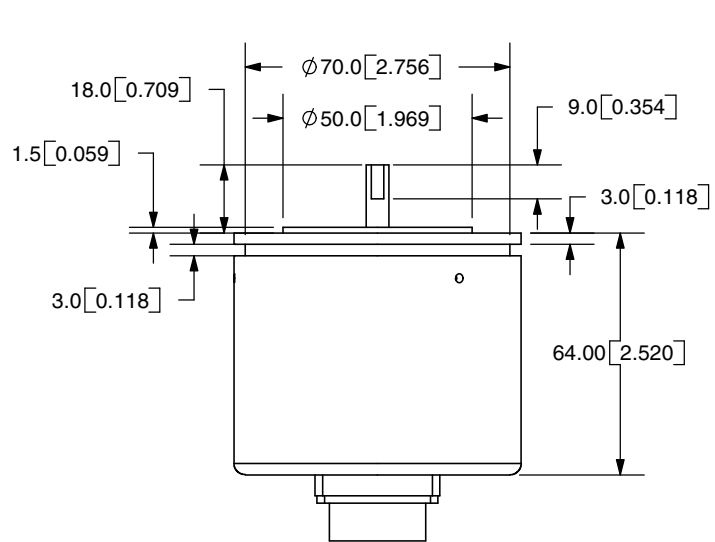
OUTPUT CIRCUIT DIAGRAMS

Voltage Output(standard type)

Open collector output


OUTPUT CODE



REV.	DESCRIPTION	DATE
A	NEW DRAWING	7/14/2008



TOLERANCE:
±0.3mm UNLESS OTHERWISE
SPECIFIED



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TITLE: Incremental Encoder		REV: A
PART NO. MAS60	UNITS: MM [INCHES]	
DRAWN BY: JMS	APPROVED BY:	SCALE: 1:2

Cable Color	Brown	Brown/Black	Orange	Orange/Black	Yellow	Yellow/Black	Green	Green/Black
Output Type	2 ⁰	2 ¹	2 ²	2 ³	2 ⁴	2 ⁵	2 ⁶	2 ⁷
Cable Color	Blue	Blue/Black	Purple	Purple/Black	Red/Black	Red	Black	Black
Output Type	2 ⁸	2 ⁹	NC	NC	NC	Power	0V	0V

PC File Name

MAS60

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