MAS-I0 series

[Absolute]

▷ Ultra compact absolute encoder

▷ φ13×H15.5

▷ Resolution 256 (8-bit)
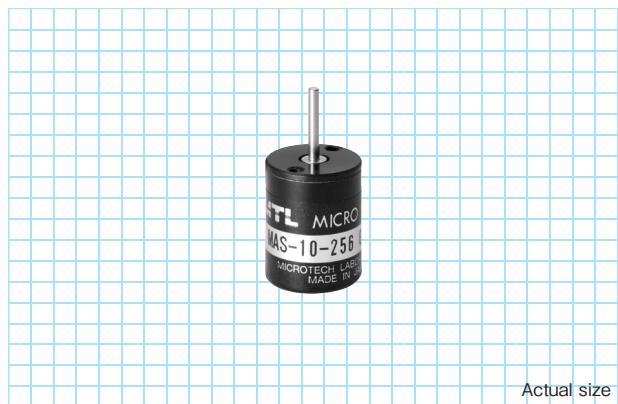
Actual size

Outside dimensions

φ13

15.5

6

Output cable 10-AWG32
L=300±10mm

$\phi 1.5^{-0.005}_{-0.009}$

85°

10

2-M2 depth 3
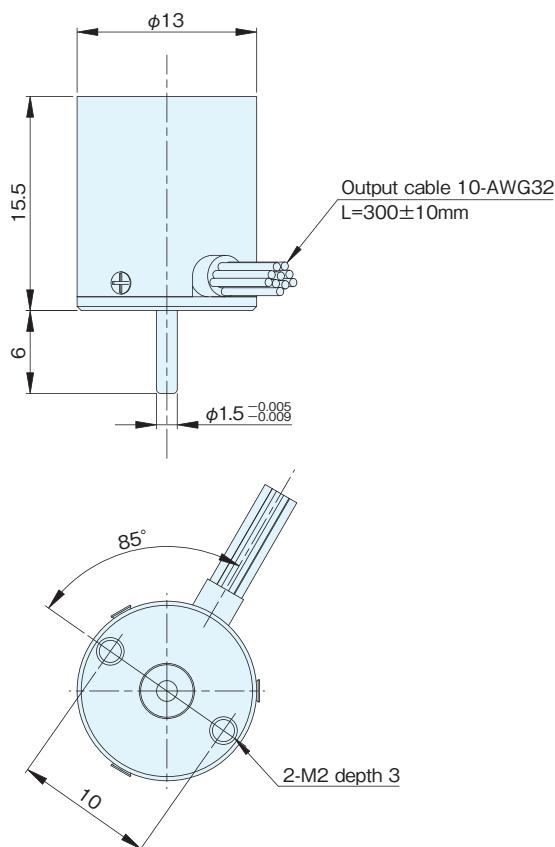
Specifications

Item	Type name	MAS-10-256G1
Supply voltage		DC5V ±5%
Current consumption		40mA or less (under no load)
Output code		G: gray code
Logic		Nagative logic(H=0、L=1)
Resolution		256 (8 bits/rotation)
Output circuit		Voltage output
Output capacity		Max. sink current per bit 4mA Residual voltage 0.4V or less
Allowable load of shaft (electrical)	Radial	0.98N（100gf）
	Thrust	0.98N（100gf）
Maximum revolutions (mechanical)		6,000r/min
Maximum response frequency		20kHz
Working temperature/humidity		0℃～+60℃／RH35%～90%　no dewing
Storage temperature		−20℃～+80℃
Vibration resistance		Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions
Impact resistance		Durability 500m/s² (about 50G) 3 times each in X, Y, and Z directions
Mass		10g

Connection

Cable color	MAS-10-256 G
Black	0V（COMMON）
Red	5V±5%
Brown	Output 2^0
Orange	Output 2^1
Yellow	Output 2^2
Green	Output 2^3
Blue	Output 2^4
Purple	Output 2^5
Gray	Output 2^6
White	Output 2^7

I/O circuit diagram

Main circuit

5V±5%

10kΩ

Output

4mA maximum

0V