

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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SHAFT TYPE



Advanced Small Model

•Low Starting Torque.

OSS Model

Model

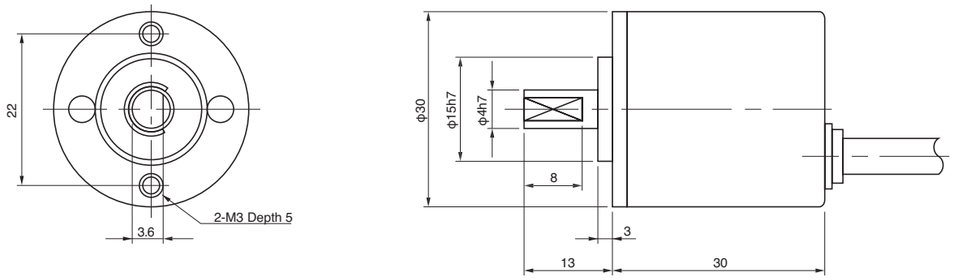
TÜV CE EN 50081-2 EN 50082-2

OSS-□□-□□□-□□-□□-□□□-00E

- Resolution
  - 006 60 P/R
  - ※01 100 P/R
  - 015 150 P/R
  - ※02 200 P/R
  - ※025 250 P/R
  - 03 300 P/R
  - ※036 360 P/R
  - ※04 400 P/R
  - ※05 500 P/R
  - ※06 600 P/R
- Signals
  - 1 : Only A Signal
  - 2 : AB90° Phase Difference
  - 2M : AB90° Phase Difference + Index Signal
- Output Mode
  - No Indication : Voltage Output
  - C : Open Collector Output
  - HC : Open Collector Output / High Voltage (The Power Supply(Vcc) is Only 24V)
- Power Supply(Vcc)
  - 5R : DC+5V Voltage Output
  - 5C : DC+5V Open Collector Output
  - 12 : DC+12V
  - 24 : DC+24V Open Collector Output
- Cable Length
  - 050 500mm (Standard)
  - 100 1000mm
  - 300 3000mm
- Complying with RoHS

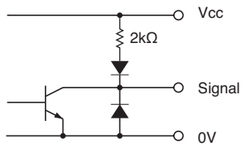
※2M is available for only types with ※mark

External Dimension

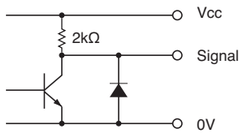


Output Circuit

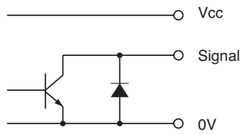
1
2



2M



1C
2C
2MC
1HC
2HC



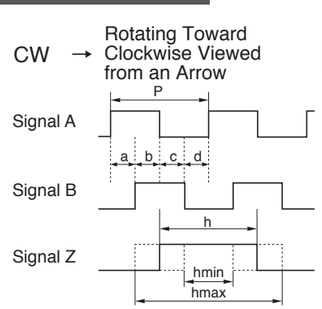
Electrical Spec

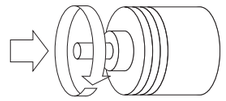
TYPE		1	2	2M	1C	2C	2MC	1HC	2HC
Power Supply(Vcc)		DC4.5～13.2 V		DC 4.5～5.5V	DC 4.5～13.2 V		DC 4.5～5.5V	DC21.6～26.4 V	
Current Consumption		40 mA Max		70 mA Max	40 mA Max		60 mA Max		
Output Voltage	"H"	Vcc-1V Min			———				
	"L" ※1	0.5 V Max							
Maximum Sink Current		20 mA							
Rise & Fall Time		1μS Max							
Maximum Frequency Response		60 kHz							
Withstanding Voltage of Output Tr.		———			50 V Max.				

※1) at Maximum Sink Current

Wave Form

CW → Rotating Toward Clockwise Viewed from an Arrow





Rising point of A-Signal is always at one point while Z-Signal is at H-Level in CW.

$$P = \frac{1}{\text{Resolution}} \qquad \frac{P}{2} \leqq h \leqq \frac{3P}{2}$$

$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8}$$

Wave Ratio (Duty); 50 ± 25 (%)

Electrical Connections

Color	Signal
Red	Power Supply(Vcc)
Black	0V
Green or Blue	Signal A
White	Signal B
Yellow	Signal Z
Shield	NC

Mechanical Spec

Starting Torque		9.8×10^{-4}N・m Max
Angular Acceleration		1×10^{5} rad/s^2
Shaft Loading	Thrust	4.9N
	Radial	9.8N
Moment of Inertia		2×10^{-7}kg・m^2
Maximum Permissible Speed		6000min^{-1}
Bearing Life		1 x 10^8 / min^{-1} ・hrs
Net Weight		100g Max

Environmental Spec

Operating Temperature	–10˚C～+70˚C
Storage Temperature	– 30˚C～+80˚C
Humidity	RH 85% Max No Condensation
Vibration	10～55 Hz / 1.5mm X, Y, Z Each 2h
Shock	490m/s^2,11ms X, Y, Z Each 3 times

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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