OPTICAL CONTACTLESS TYPE **JT22**

RoHS compliant

JT22-120-C00

Basic construction

Shaft
Bearing
Bearing
Mount
LED
Light source
Slit
PSD
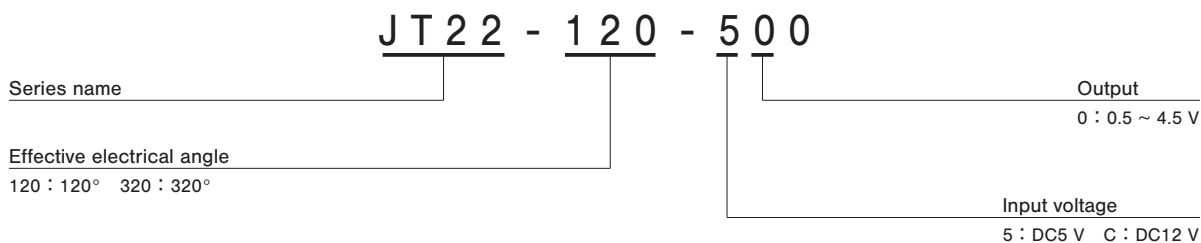PC board ASSY
Cover

Optical contactless single turn type
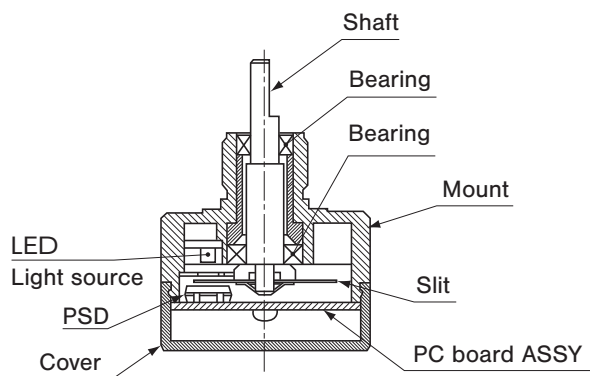
■ FEATURES

● Contactless configuration offers much longer life
● Low torque 0.147 mN·m {1.5 gf·cm} maximum
● Superior temperature characteristic due to temperature compensation circut incorporated
● Wide effective electrical angle (120° ・ 320°)
● RoHS compliant

■ PART NUMBER DESIGNATION

J T 2 2 - 1 2 0 - 5 0 0

Series name

Effective electrical angle
120：120°　320：320°

Output
0：0.5 ～ 4.5 V

Input voltage
5：DC5 V　C：DC12 V

■ LIST OF PART NUMBERS

Effective electrical angle	Input voltage	Part number
120°	DC5 V	JT22-120-500
	DC12 V	JT22-120-C00
320°	DC5 V	JT22-320-500
	DC12 V	JT22-320-C00

※ Verify the above part numbers when placing orders.
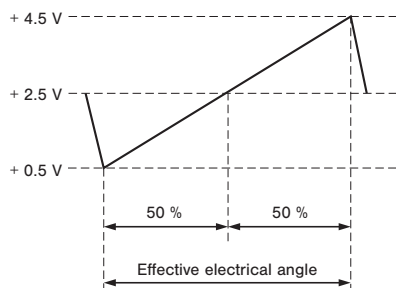
JT22
POTENTIOMETERS

■ STANDARD SPECIFICATIONS

● Electrical characteristics

Input voltage	DC5 V ± 0.25 V		DC12 V ± 0.6 V	
Dissipation	40 mA maximum			
Effective electrical angle	120°	320°	120°	320°
Output voltage	+0.5 ~ +4.5 V			
Absolute linearity　※ 1	± 3.0 %			
Temperature sensitivity	± 3.0 %FS (± 2.0 %FS/−30 ~ 70 °C)			
Temperature medium drift	± 40 mV			
Insulation resistance	100 MΩ (at DC500 V) minimum			
Dielectric strength	AC500 V (1 min)			

※ 1　At normal temp.

■ OUTPUT

+ 4.5 V
+ 2.5 V
+ 0.5 V

50 %　50 %

Effective electrical angle

※ The output increases with CW shaft rotation.

■ OUTLINE DIMENSIONS

(31)
8　8　15
0.1
$\phi 3^{\ 0}_{-0.05}$
2
ϕ 13
ϕ 9.2
ϕ 22
10
6
1.5
45°
M 9, P = 0.75
1
AWG28
L = 200

〈Accessories〉

M 9　P = 0.75　12　2

1. Nut

ϕ 9.4
ϕ 12.9
0.5
1

2. Washer
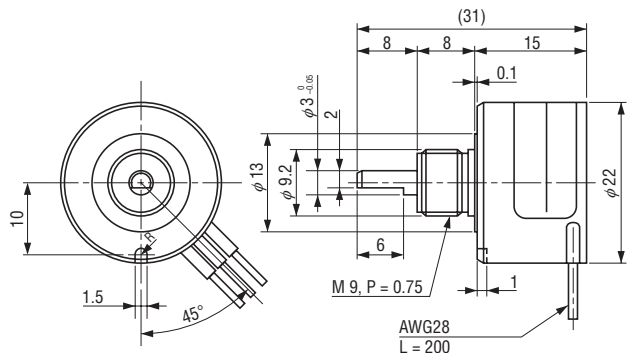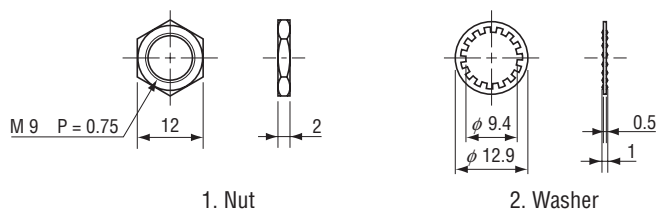
● Mechanical characteristics

Starting torque	0.147 mN·m {1.5 gf·cm} maximum (at normal temp.)
Maximum rotational speed	1500 min^{-1}
Mechanical angle	360° continuous
Rotational life	1 × 10^8 revolution
Vibration	147 m/s^2 {15 G} 30 ~ 200 Hz, 30 h
Shock	294.2 m/s^2 {30 G} minimum
Strength of tighten screw	0.49 N·m {5 kgf·cm} maximum

● Environmental characteristics

Operating temp. range	−30 ~ 80 °C
Storage temp. range	−30 ~ 85 °C
Humidity	Relative humidity 95 % maximum
Net weight	Approx. 12g
Protection grade	IP40

■ OUTPUT CIRCUITRY

DC5 V, 12 V
I0
Output
2.2 kΩ
0 V

I0 is 20 mA max.

(Unit: mm)
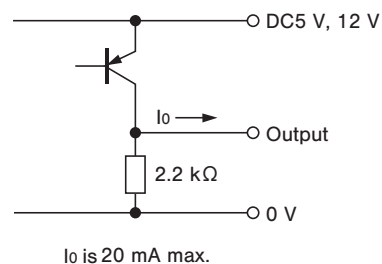
■ ELECTRICAL WIRING

Red	Power ⊕
Black	Power 0 (V)
White	Output

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