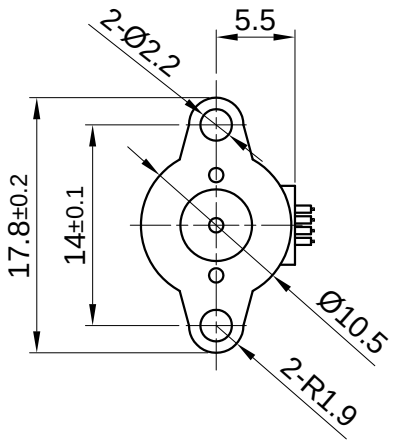
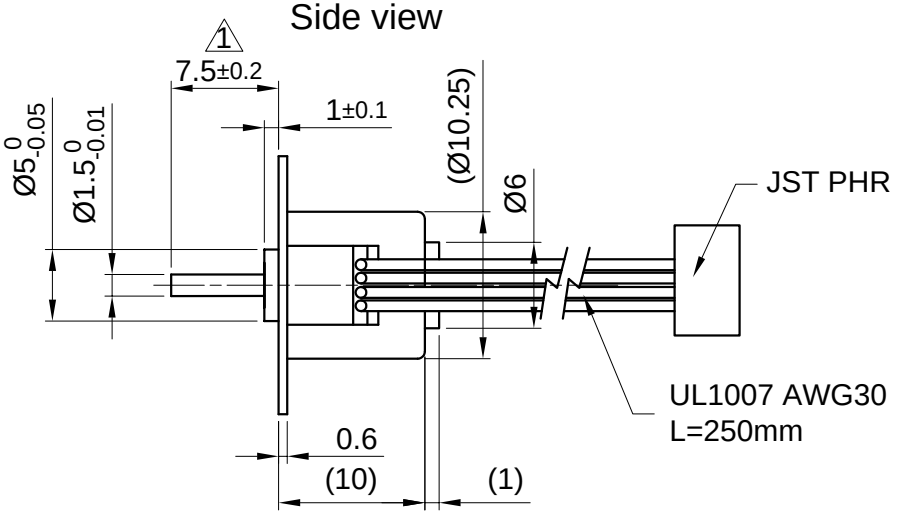
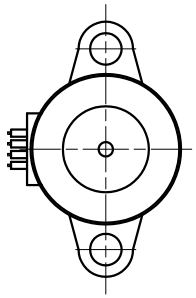
Front view and mounting



Side view

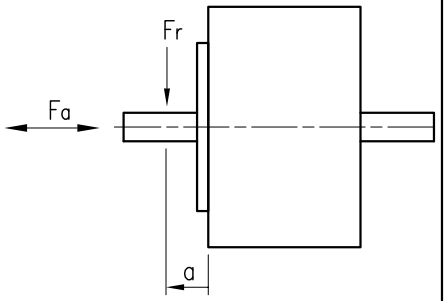


Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	3.3
AMPS/PHASE	0.22
RESISTANCE/PHASE (Ohms)@25°C	15±7%
INDUCTANCE/PHASE (mH) @1KHz	3.0
HOLDING TORQUE (Nm) [lb-in]	$1.6X10^{-3}$ [$1.4X10^{-2}$]
DETENT TORQUE (Nm) [lb-in]	$4.8x10^{-5}$ [$4.2x10^{-4}$]
STEP ANGLE (°)	18
STEP ACCURACY (NON-ACCUM)	±7%
ROTOR INERTIA (Kg-m^2) [lb-in^2]	$1.0x10^{-9}$ [$3.416X10^{-6}$]
WEIGHT (Kg) [lb]	0.0043 [0.0095]

PERMISSIBLE RADIAL+AXIAL FORCE



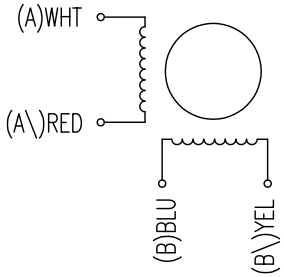
TEMPERATURE RISE: MAX.70°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)	AXIAL-FORCE Fa (N)	Fa=1.0	
AMBIENT TEMPERATURE -20°~ 50°C [-4°F ~ 122°F]	DISTANCE a (mm)	1/2 SCHAFTLENGTH	
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	Fr=2.0	
INSULATION CLASS E 120° [248°F]		AXIAL	RADIAL
DIELECTRIC STRENGTH 600VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	n.a.	n.a.
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	n.a.	n.a.

TYPE OF CONNECTION (EXTERN)	MOTOR		
BIPOLAR	CONNECTOR PIN NO.	LEADS	WINDING
A —	1	WHT	A
A\ —	2	RED	A\
B —	3	BLU	B
B\ —	4	YEL	B\

FULL STEP 2 PHASE-Ex.,
WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\	
1	+	+	-	-	CW ↓
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	↑ CCW

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD
1	LENGTH	30.01.07	J.W.

NANOTEC:

SP1018M0204-A

SCALE FREE		APVD	S.Ha.	12.03.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	23.10.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

SP1018M0204-A