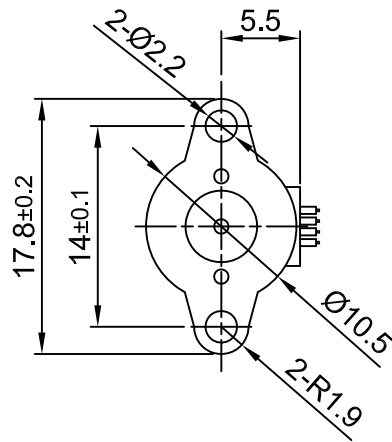
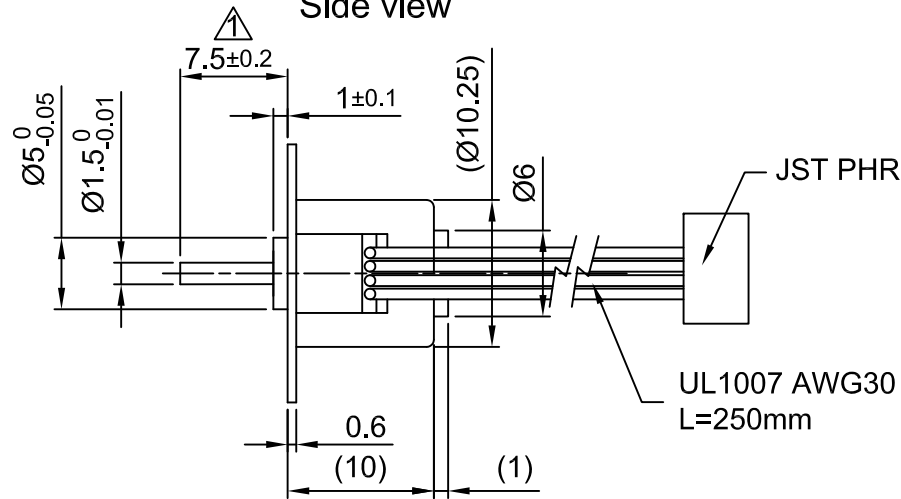


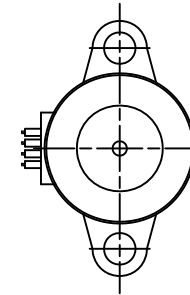
Front view and mounting



Side view



Rear view

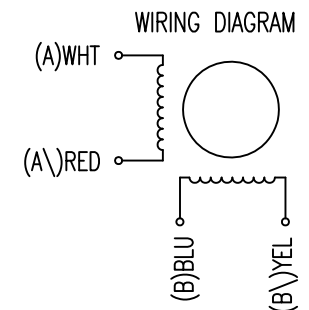


SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		3.3
AMPS/PHASE		0.22
RESISTANCE/PHASE (Ohms)@25°C		15±7%
INDUCTANCE/PHASE (mH) @1KHz		3.0
HOLDING TORQUE (Nm) [lb-in]		1.6x10 ⁻³ [1.4x10 ⁻²]
DETENT TORQUE (Nm) [lb-in]		4.8x10 ⁻⁵ [4.2x10 ⁻⁴]
STEP ANGLE (°)		18
STEP ACCURACY (NON-ACCUM)		±7%
ROTOR INERTIA (Kg-m ²) [lb-in ²]		1.0x10 ⁻⁹ [3.416x10 ⁻⁶]
WEIGHT (Kg) [lb]		0.0043 [0.0095]
TEMPERATURE RISE: MAX.70°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		
AMBIENT TEMPERATURE -20°~ 50°C [-4°F ~ 122°F]		
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		
INSULATION CLASS E 120° [248°F]		
DIELECTRIC STRENGTH 600VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		

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\	CCW	CW
1	+	+	-	-	↓	↑
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↓	↑



REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE FREE	APVD	S.Hα.	12.03.07	STEPPING MOTOR
2	REMOVE LOAD SPEC.	28.02.14	J.D.	SP1018M0204-A	X ±0.5	CHKD			
1	LENGTH	30.01.07	J.W.		1PL ±0.2	DRN	J.W.	23.10.06	DWG.NO
					2PL ±0.1	SIGNATURE			SP1018M0204-A
					ANGLE ±30'			DATE	