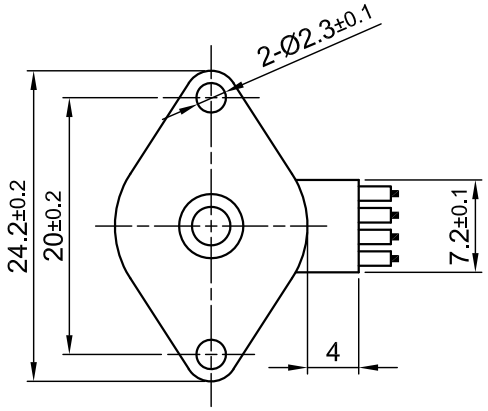
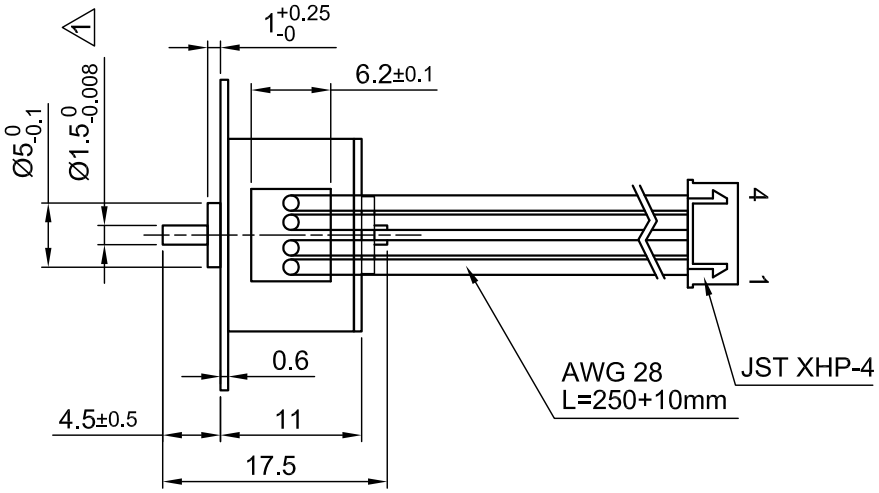
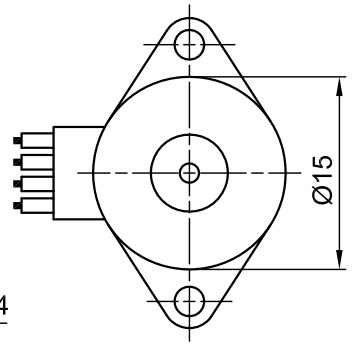
Front view and mounting



Side view

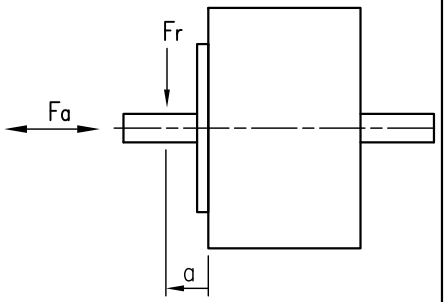


Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	12.4
AMPS/PHASE	0.065
RESISTANCE/PHASE (Ohms)@25°C	190±7%
INDUCTANCE/PHASE (mH) @1KHz	37±20% ③
HOLDING TORQUE (Nm) [lb-in]	$3.2X10^{-3}$ [$2.8X10^{-2}$] ②
DETENT TORQUE (Nm) [lb-in]	$6.9x10^{-5}$ [$8.4x10^{-4}$]
STEP ANGLE (°)	18
STEP ACCURACY (NON-ACCUM)	±8%
ROTOR INERTIA (Kg-m^2) [lb-in^2]	$1.0x10^{-7}$ [$3.416X10^{-4}$]
WEIGHT (Kg) [lb]	0.012 [0.026]

PERMISSIBLE RADIAL+AXIAL FORCE



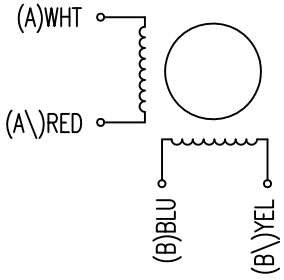
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)	AXIAL-FORCE Fa (N)	Fa=1.0	
AMBIENT TEMPERATURE -20°~ 50°C [-4°F ~ 122°F]	DISTANCE a (mm)	1/2 SCHAFTLENGTH	
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	Fr=2.0	
INSULATION CLASS E 120° [248°F]		AXIAL	RADIAL
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	0.08	0.06
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	4.5	4.5

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD
3	NEW VALUE	11.11.08	J.W.
2	NEW VALUES (RATET)	05.11.07	J.W.
1	TOLERANZ	08.02.07	J.W.

Nanotec® PLUG & DRIVE

SP1518M0104-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 SP1518M0104-A