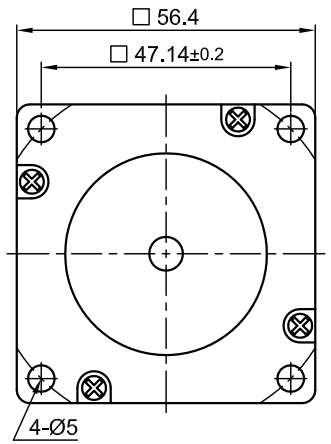
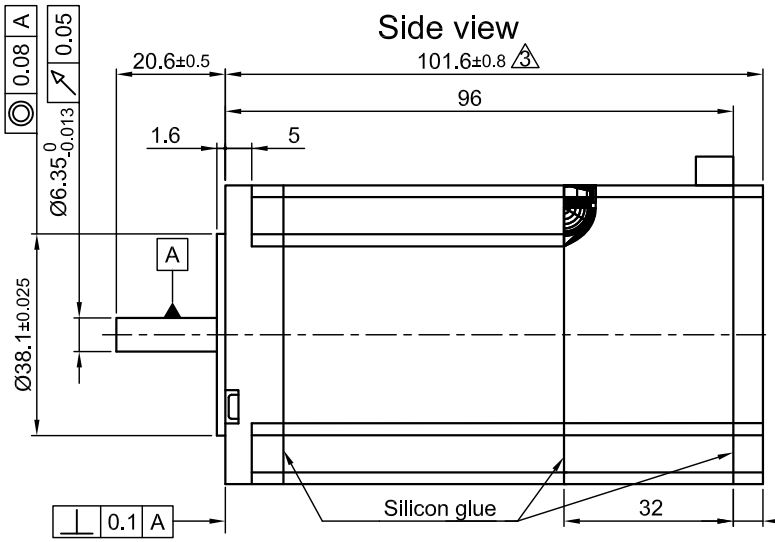
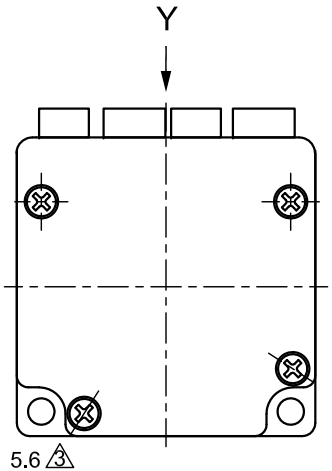
Front view and mounting



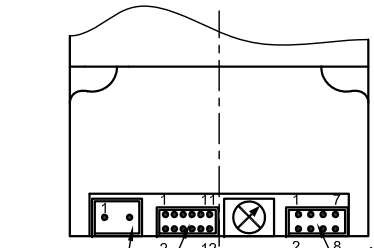
Side view



Rear view



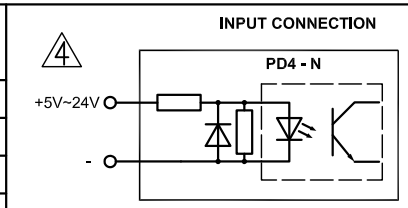
Y view



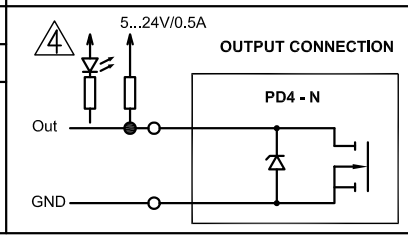
SPECIFICATION \ CONNECTION	BIPOLAR PARALLEL
SUPPLY VOLTAGE (VDC)	12 TO 48 ⚠5
AMPS/PHASE ⚠2	* UP TO 4.8 (100%=3.2)
HOLDING TORQUE (Nm) [lb-in]	1.98 [17.52]
DETENT TORQUE (Nm) [lb-in]	0.068 [0.602]
STEP ANGLE (°) ± ACCURACY	* 1.8 TO MICROSTEP
WEIGHT (Kg) [lb]	1.22 [6.54]

* ADJUSTABLE WITH NANOPRO.

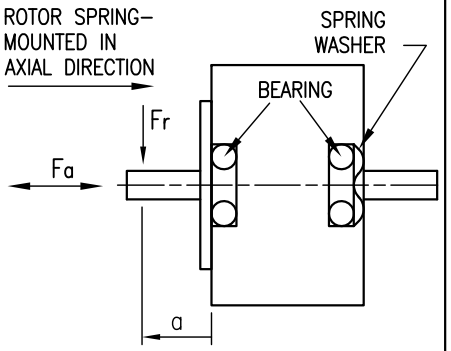
INPUT CONNECTION



OUTPUT CONNECTION



PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=10			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	130	90	70	52

	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

JST PHDR-8VS		
PIN No.	WIRE COLOUR	ASSIGNMENT
1	BU	GND
2	WH-PK	+UB extern
3	YE	RS485 Rx-
4	GN	RS485 Rx+
5	PK	RS485 Tx-
6	GY	RS485 Tx+
7	BN	CAN+
8	WH	CAN-

JST PHDR-12VS		
PIN No.	WIRE COLOUR	ASSIGNMENT
1	GY-BN	COM
2	RD	GND
3	BK	INPUT 1
4	VT	INPUT 2
5	GY-PK ⚠1	INPUT 3
6	RD-BU	INPUT 4
7	WH-GN ⚠1	INOUT 5
8	BN-GN	INPUT 6
9	WH-BU	ANALOG INPUT
10	WH-YE	OUTPUT 1
11	YE-BN	OUTPUT 2
12	WH-GY	OUTPUT 3

FK-MCP-1.5/2-ST-3.5 gn		
PIN No.	WIRE COLOUR	ASSIGNMENT
1	BK	GND
2	BN	Vcc

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

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

CABLE SET:
ZK-PD4N
L=500mm

- OVERTEMPERATURE PROTECTION (ELECTRONICS): 80°C
- AMBIENT TEMPERATURE -10°~ 40°C [14°F ~ 104°F] (HIGHER TEMPERATURE REDUCES DUTY CYCLE)
- INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)
- INSULATION CLASS B 130° [266°F]
- DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)
- AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

REV	DESCRIPTION	DATE	APVD
3	MOTOR LENGTH	20.07.10.	J.W.
5	NEW VALUE OF SUPPLY VOLTAGE	15.12.10.	J.W.
4	NEW CONNECTION OF IN-, OUTPUT	07.09.10.	J.W.

Nanotec® PLUG & DRIVE

PD4-N5918L4204

SCALE FREE		APVD	S.Ha.	30.10.09
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	30.10.09
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

PLUG&DRIVE MOTOR

DWG.NO
PD4-N5918L4204