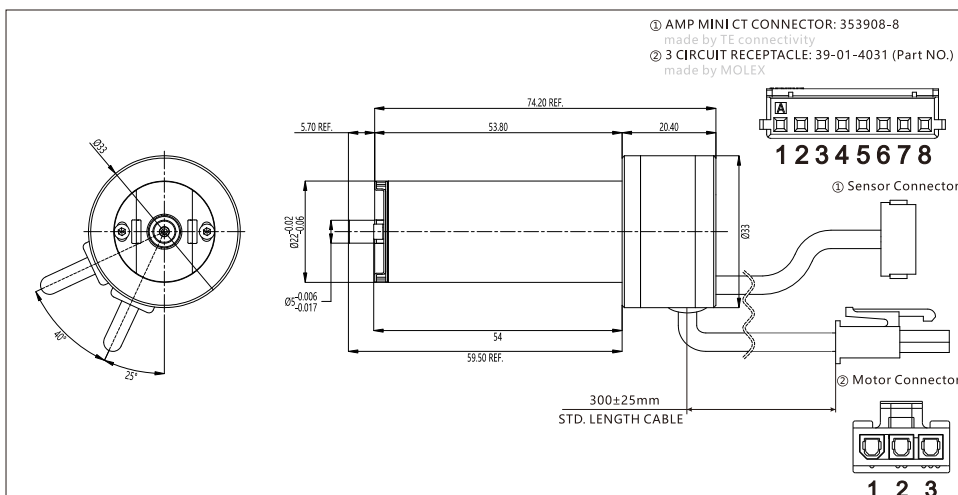


(Unit: mm)



X - Axis

spot center 15.00 reflective surface 24.00 15.70 23.20 74.20

Y - Axis

spot center 30.00 reflective surface 21.50 23.20 38.20 74.20

※ Galvo mirror with 14 mm spot diameter as shown in the drawing. (Mirror thickness: 3.0 mm)

Items		Unit	PM14K
Maximum scan angle (Mechanical angle)		deg mech.	± 20
Rotor inertia		g · cm ² (± 10%)	0.95
Coil resistance		Ω (± 10%)	1.1
Coil inductance		μH (± 10%)	170
Torque constant		dyne· cm/amp (± 10%)	1.30 × 10 ⁵
Back EMF voltage		μV/deg/sec (± 10%)	220
RMS current (at 50°C,Maximum)		A	7
Peak current (Maximum)		A	25
Maximum coil temperature		°C	110
Thermal resistance (Rotor to case)		°C/watt	0.8
Weight		g	270
Repeatability		μrad	8
Non - linearity (Maximum)		%	0.1
Offset drift (Maximum)		μrad/ °C	15
Gain drift (Maximum)		ppm/ °C	50
Step response time		μsec	250
Output signal	Common mode	μA (± 25%)	155 (at AGC current of 25 mA)
	Differential mode	μA/deg (± 5%)	12 (at common mode current of 155 μA)

⌘ All angles shown are mechanical angles.

Galvanometer Optical Scanner

Connector pin definition

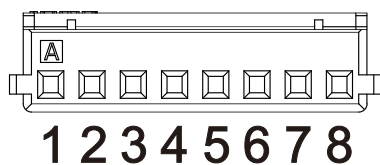
① Sensor connector	
Supplier	TE connectivity
Product Name	AMP MINI CT CNNECTOR
Part Number	353908-8

② Sensor connector	
Supplier	MOLEX
Product Name	3 CIRCUIT RECEPTACLE
Part Number	39-01-4031

Pin	Input/Output	Name: Function
1	Output	POS1: PD Output Signal 1
2	Output	POS2: PD Output Signal 2
3	GND	GND: PD Ground
4	GND	LED-: LED Ground
5	Input	LED+: AGC Input
6	GND	PE: PD Shield
7	Don't connect	N.C.: Not Uused
8	Don't connect	N.C.: Not Uused

Pin	Input/Output	Name: Function
1	Input	Motor-: Motor Driver -
2	Input	Motor+: Motor Driver +
3	GND	GND: Motor Driver Shield

Drawing



Drawing

