Multi-Function Rotary Limit Switch
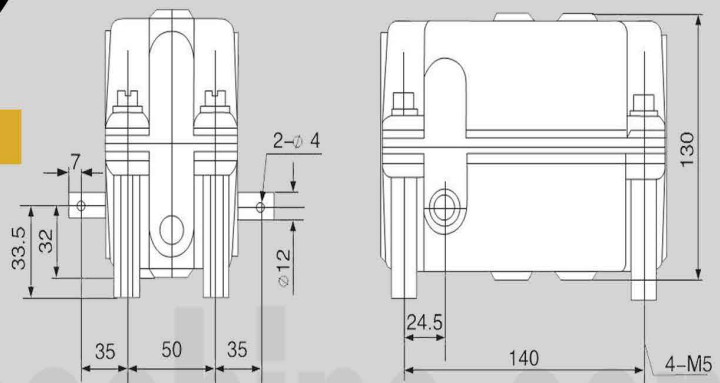

Rotary Limit Switch

Multi-function Stroke Limiter synchronized with the controlled mechanism is connected with the input shaft of the limiter after being shifted by the external hanging wheel, and is converted into the angular displacement signal of the output shaft by the speed change of the reduce

Multi-Function Stroke Limiter is widely applied to control and limit trilinear coordinates of space of the lifting, transmission in building, port, mining and other industries, Multi-functions Stroke Limiter has many characteristics, like :

- strong aluminum die-cast Housing
- Small volume
- many functions
- High precision
- Limit position adjustment
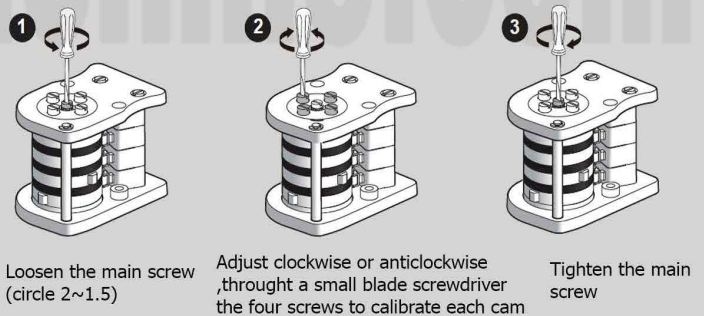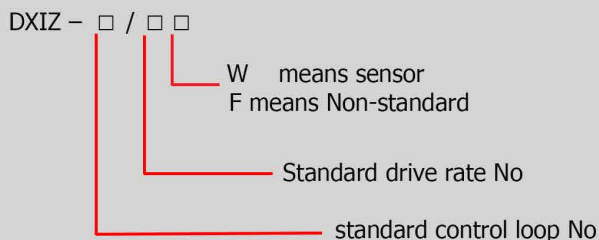- Strong versatility and convenient maintenance and installation

Technical Data

Rating load		10A/250VAC
Rated Voltage		AC 220/380V
Rated Current		6~10A
Operating speed		1mm-50cm/s
Operating frequency	Mechanical	120times/min
	Electrical	30times/min
Insulation resistance		100MΩ(Above)DC500V
Contact resistance		25MΩ(initial value)
Withstand voltage	Non-connection	1000VAC wire
	Every terminal	1500VAC
Vibration	Misoperation	10-55Hz Amplitude 1.5mm
Durable Impact		1000m/s²
Misoperation		300m/s²
Electrical Life		100,000above
Mechanical		1,000,000above
Protection degree		IP65
Operation temperature		-40"C ~ 55" C
Operating humidity		≤ 90%RH
Repeatable Positioning Accuracy		Angle Error of Memory Cam ≤0.005 rad (0.3°)
Potentiometer of Sensor		Standard Resistance 5KΩ,Independent Linearity 0.1% Mechanical Turning Angle 360°(continuously)

Microswitch's system calibration

❶ Loosen the main screw (circle 2~1.5)	❷ Adjust clockwise or anticlockwise ,throught a small blade screwdriver the four screws to calibrate each cam	❸ Tighten the main screw

Model and meaning

DXIZ – □ / □□

- W means sensor
- F means Non-standard
- Standard drive rate No
- standard control loop No

Standard Drive Ratio

Drive Ratio No	1	2	3	4	5	6	7	8
Drive Ratio	1:13	1:17	1:46	1:60	1:78	1:210	1:274	1:960

Non Standard Drive Ratio

Drive Ratio	1:20	1:26	1:30	1:35	1:87	1:105	1:135	1:140
	1:160	1:188	1:247	1:330	1:360	1:453	1:480	1:660

Function of model, specification and quantity according to example as follow

Model 1 : DXIZ – 4/7W   Limit switch's control loop as 4 drive, Ratio: 1/274; with potentiometer
Model 2 : DXIZ-6/F   Limit switch's control loop as 6, Non-standard, drive rate 1:600; without potentiometer