

## MJ-7 Series Heavy Duty Limit Switch

### ◆ Features

- ✓ Heavy duty aluminum limit switch
- ✓ Dust, water, and oil resistant; IP65
- ✓ PF1/2" or M20 threaded hole at bottom of switch
- ✓ 2-circuits in-1 switch
  - ⚠ Be extremely cautious when planning & installing 2 circuits!
- ✓ 45° and 90° actuator travel types
- ✓ Terminals protected with protruding plastic insulation fins on sides



### ◆ Recognition(s)

- ✓ CE – EN60947
- ✓ UL – UL-508
- ✓ CCC – GB14048.5-2008
- ✓ RoHS Compliant
- ✓ Reach Unaffected



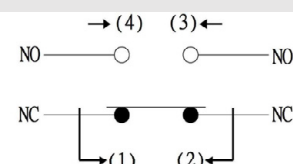
### ◆ Characteristics

Positive Opening	Electrical Contact	Terminal Type	Contact Form(s)	Poles & Throws			Actuation Sequence(s)	
No	4 Points	Screw	Form Z	SPDT-NC-NO			Double Break(1) Double Make(2)	
Operating Temp.		AC Rated	DC Rated	IP	Oil Resist	Dust Resist	Water Resist	Operating Speed
-10 to 80 Celsius		10A 125-300V	0.4A 250V, 0.8A 125V	65	Yes	Yes	Yes	1mm to 2m/sec
Operation Frequency		Contact Resistance		Insulation Resistance		Vibration		
Mechanically: 120/min Electrically: 30/min		15mΩ max. (initial)		100MΩ min. (500VDC)		1.5mm amplitude at 10-55Hz		
Storage Humidity		Service Life (min.)		Dielectric Strength				
85% RH max		Mechanically: 15,000,000 operations Electrically: 500,000 operations		1000VAC, 50/60Hz for 1 minute between non-continuous terminals				

#### Recommended tightening forces

Purpose	Screw type	Tightening
Mounting	M5	4.9~5.88 N·m
Enclosure cover		1.18±0.15 N·m
Screw terminal		0.25±0.05 N·m

#### Circuitry

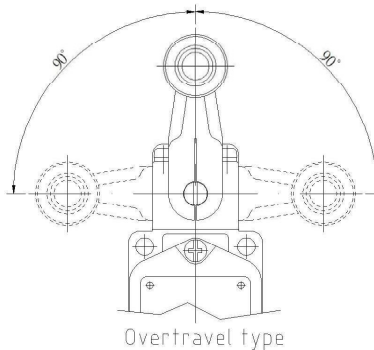
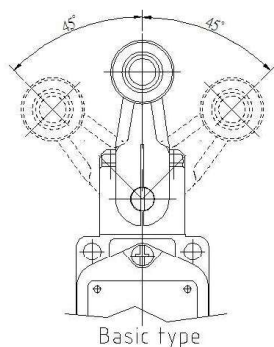


**◆ Materials**

Actuation touch part	Electrical contact point	Enclosure
Nylon, or Stainless Steel, or Plastic	Silver 99.9%	Aluminum alloy

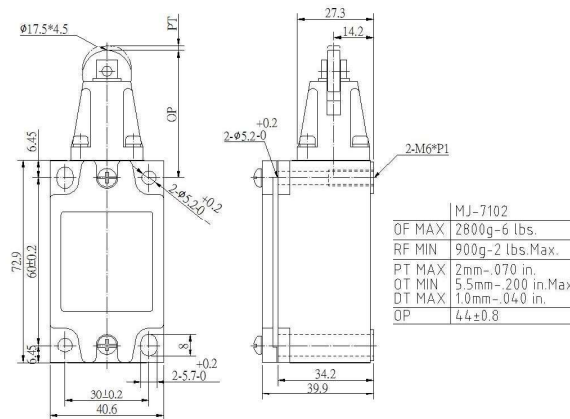
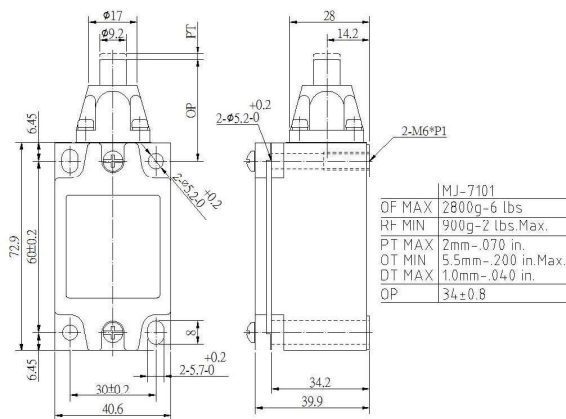
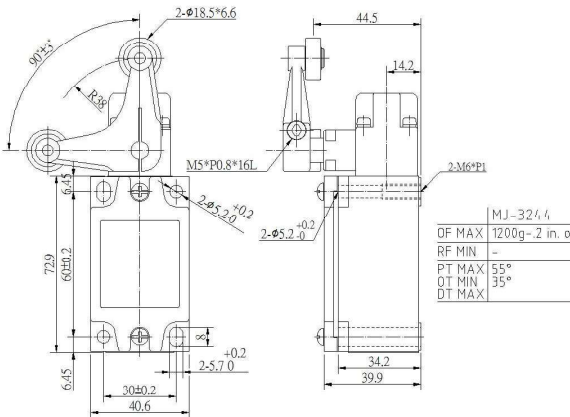
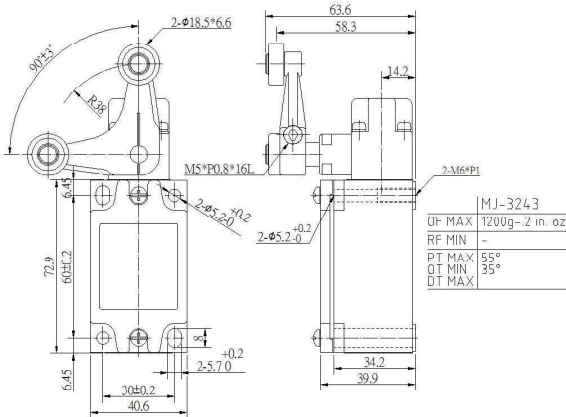
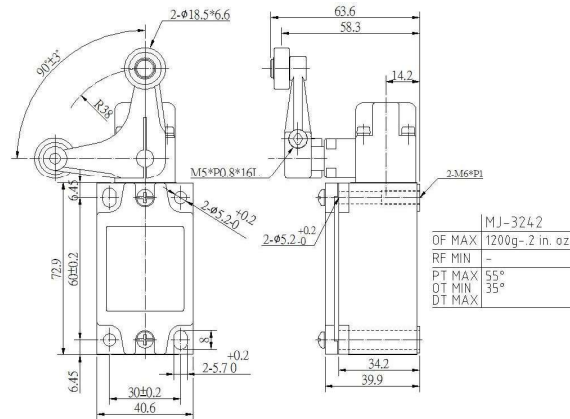
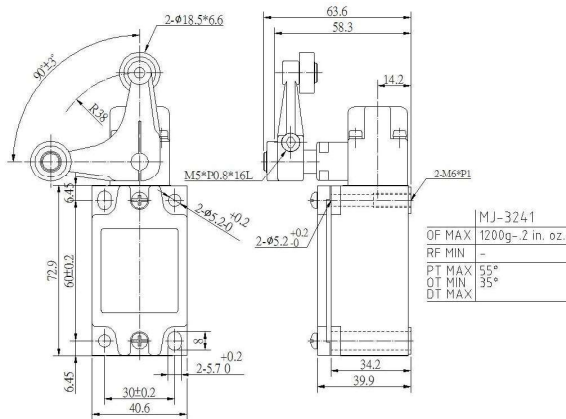
**◆ Nomenclature**

Series:	Actuator:	Through hole:
<b>MJ –</b>	<b>7101 –</b>	
	7101=Metallic Pin plunger 7102=Metallic Roller plunger 7102R=Cross metallic roller plunger 7103=Metallic Ball bearing plunger 7104=Side rotary, metallic roller, 45° travel 7104-PT=Side rotary, Teflon roller, 45° travel 7104-26= Side rotary, ø50mm rubber roller, 45° travel 7106=Spring, metallic coil 7107=Side rotary, adjustable metallic rod, 45° travel 7107L=Side rotary, adjustable metallic rod, long, 45° travel 7108=Side rotary, adjustable metallic roller, 45° travel 7108-PT=Side rotary, adjustable Teflon roller, 45° travel 7108-26= Side rotary, adjustable ø50mm rubber roller, 45° travel	Blank=PF1/2" M20=M20 thread (cable gland excluded)
	<b><u>Side Rotary, Fork Lever Lock (Yoke), Nylon rollers</u></b> 3241=Front/Back Facing nylon rollers, 90° travel 3242=Front/Back Facing nylon rollers, 90° travel 3243=Front Facing nylon rollers, 90° travel 3244=Back Facing nylon rollers, 90° travel	
	<b><u>Over Travel, 90° travel</u></b> 7204=Side rotary, metallic roller 7204-26=Side rotary, ø50mm rubber roller 7207=Side rotary, adjustable metallic rod 7207L=Side rotary, adjustable metallic rod, long 7208=Side rotary, adjustable metallic roller 7208-26= Side rotary, adjustable ø50mm rubber roller	



### ◆ Dimensions & Operating Characteristics

\*Measurements in millimeters



MJ-3241



MJ-3242



MJ-3243



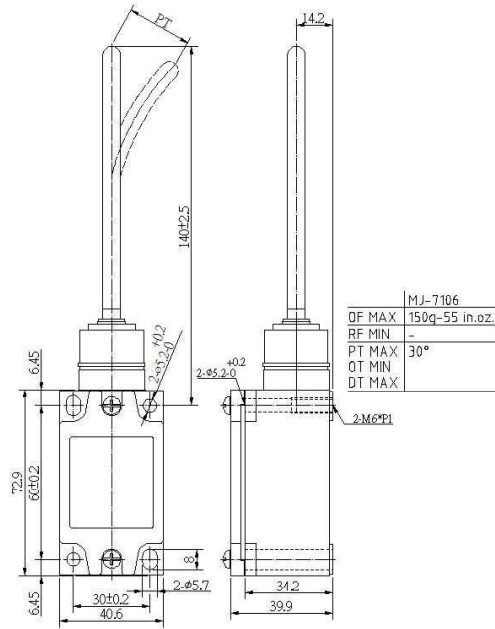
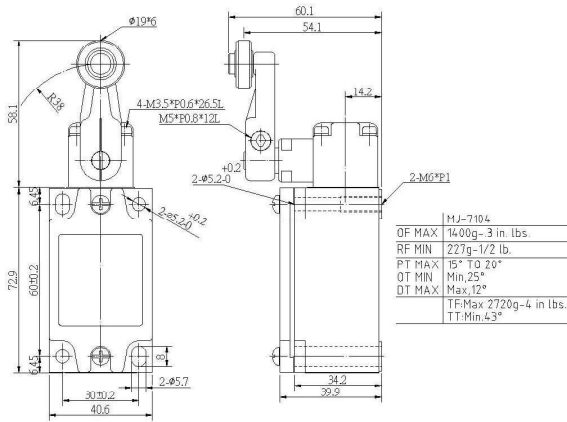
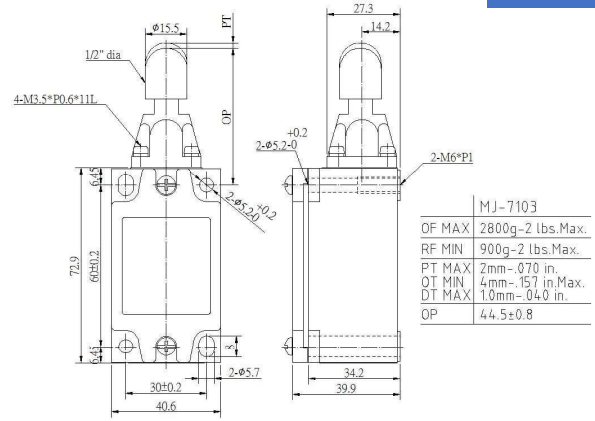
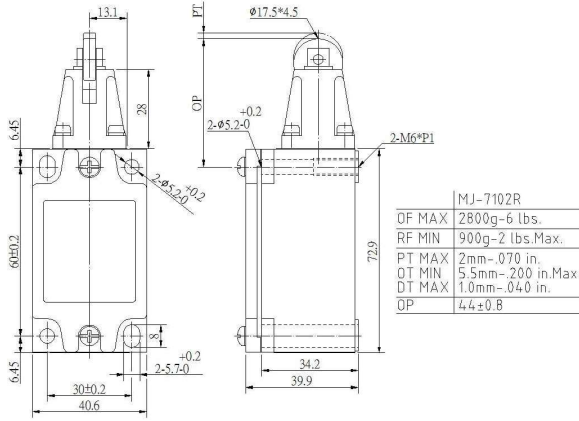
MJ-3244



MJ-7101



MJ-7102



MJ-7102R



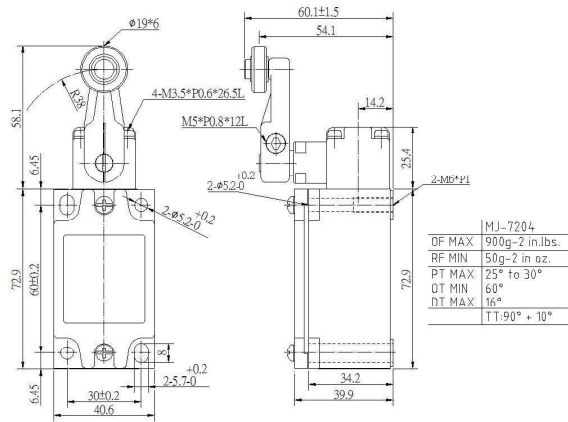
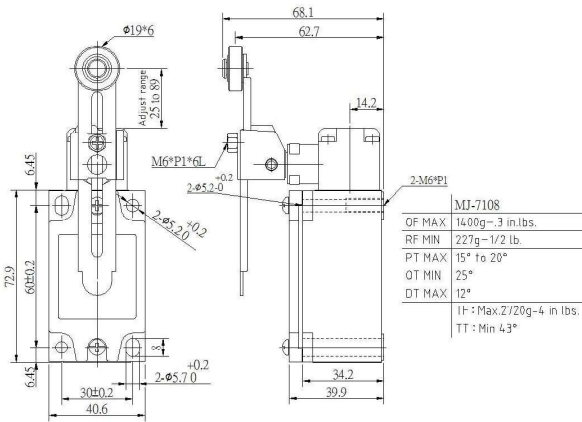
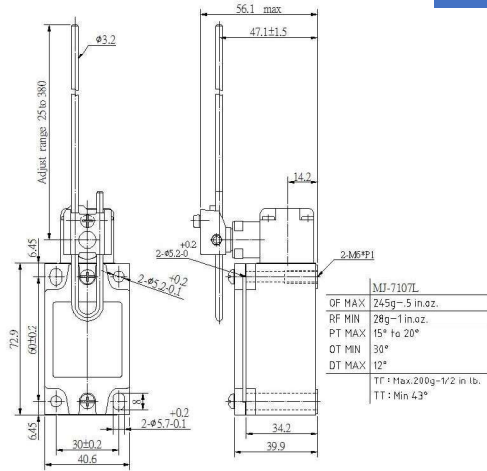
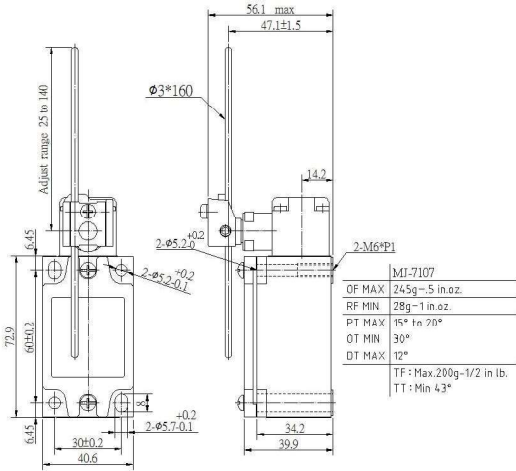
MJ-7103



MJ-7104



MJ-7106



MJ-7107



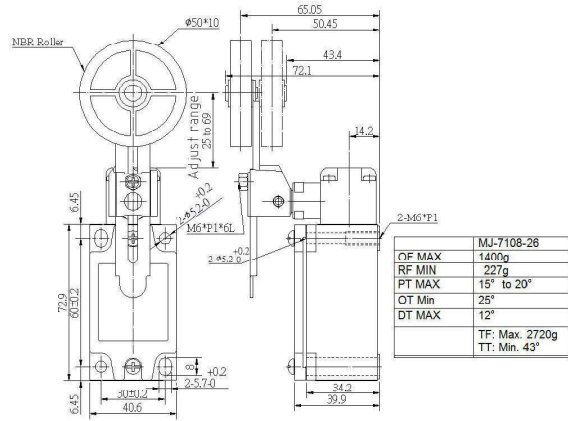
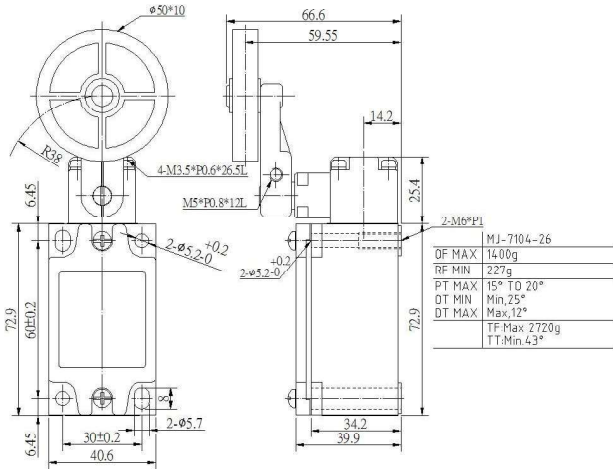
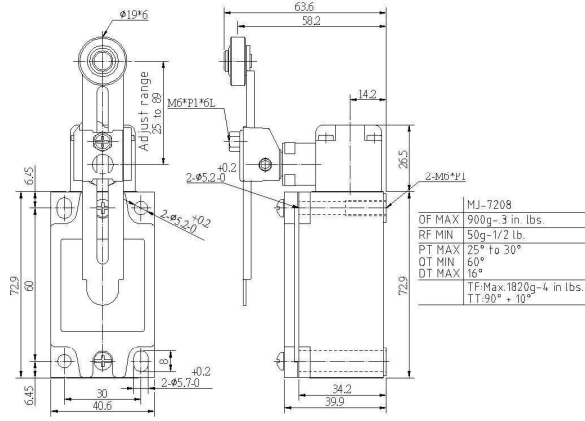
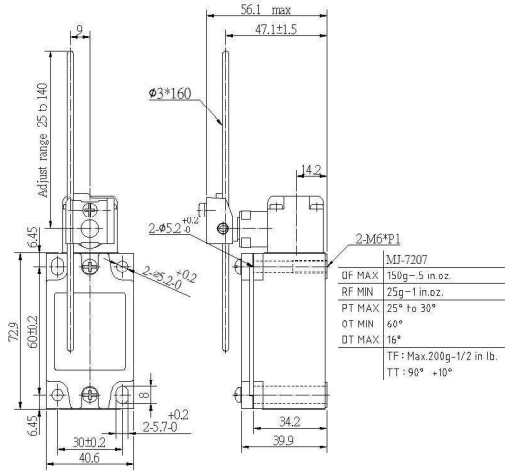
MJ-7107L



MJ-7108



MJ-7204



MJ-7207



MJ-7208



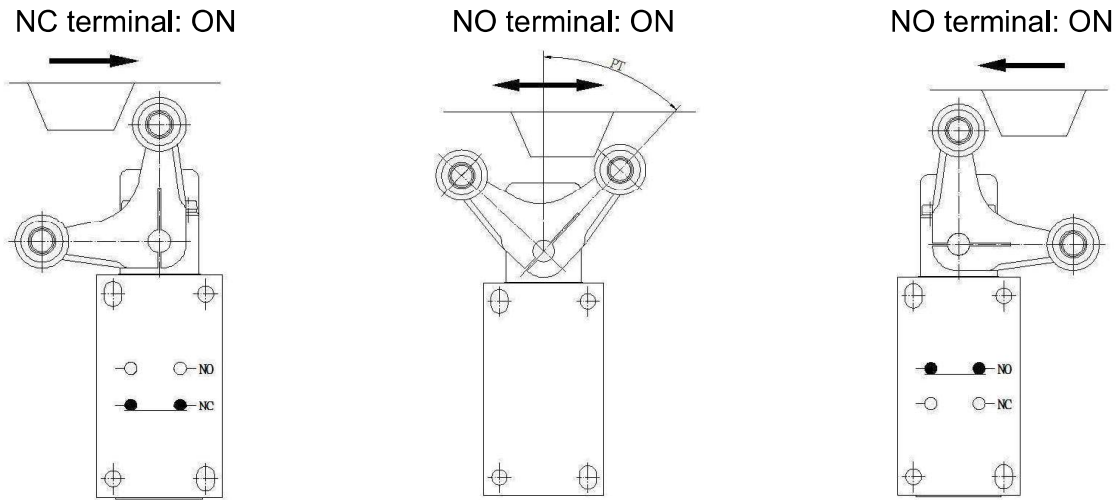
MJ-7104-26



MJ-7108-26

◆ Handling and Usage

Operation of Fork Lock Lever switches:



Fork Lock Lever roller positions:

