

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

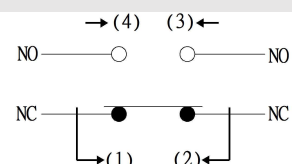
Operation Frequency	Contact Resistance	Insulation Resistance	Vibration
Mechanically: 120/min Electrically: 30/min	15mΩ max. (initial)	100MΩ min. (500VDC)	1.5mm amplitude at 10-55Hz

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

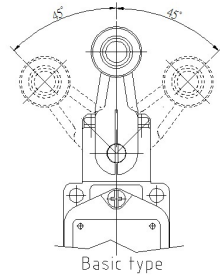
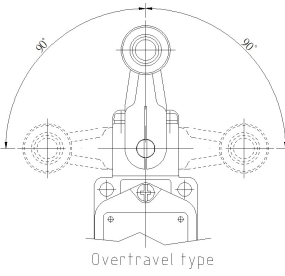
Circuitry



◆ Materials

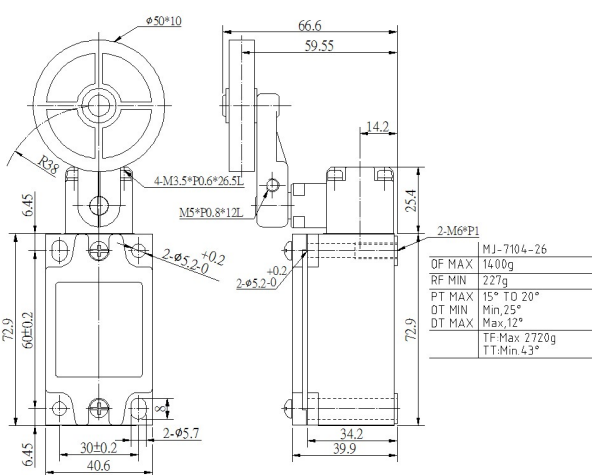
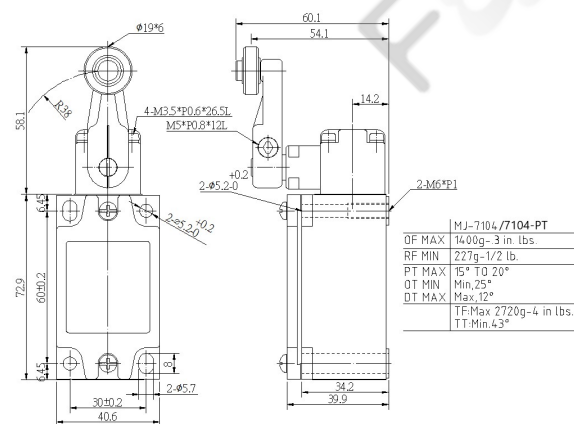
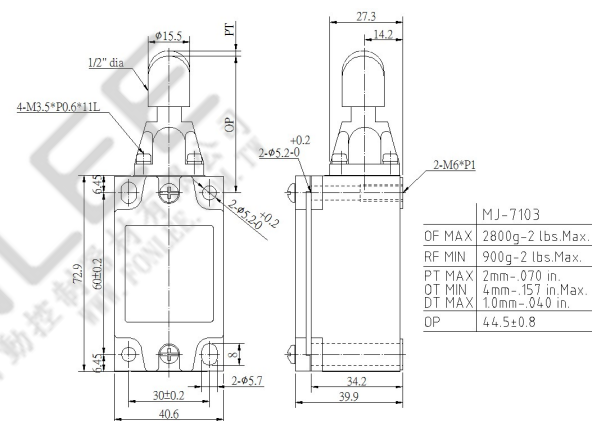
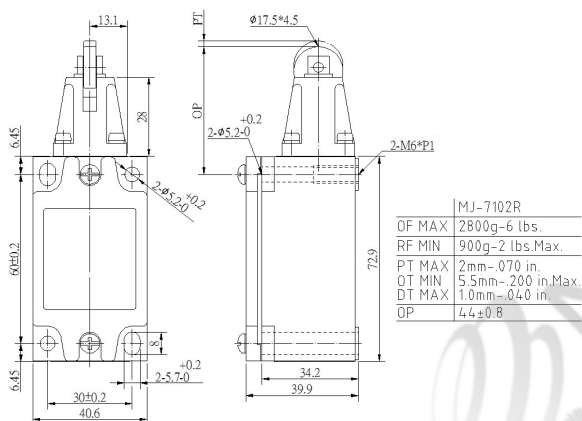
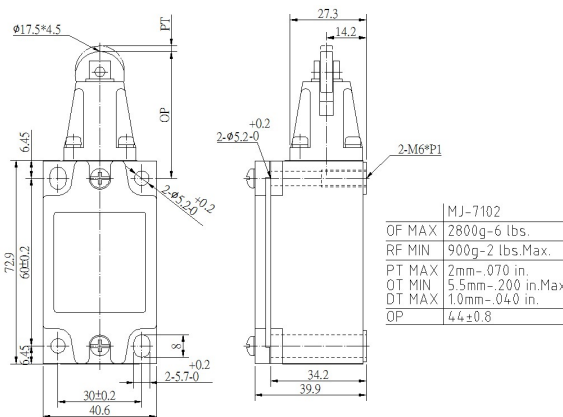
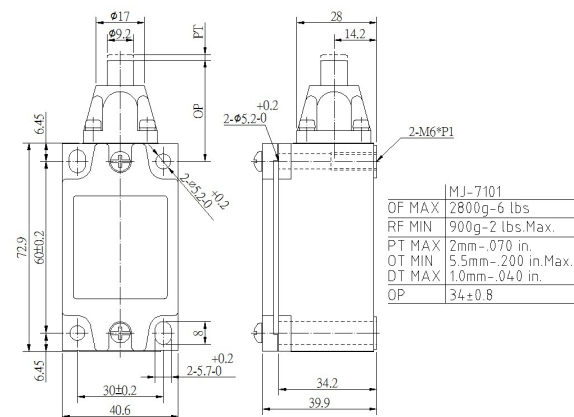
Actuation touch part	Electrical contact point	Enclosure
Nylon, or Stainless Steel, or Plastic	Silver 99.9%	Aluminum alloy

◆ Nomenclature

Series:	Actuator:	Through hole:
MJ –	7101 –	
	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 = Metallic spring 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 7126 = Metallic spring coil with solid stainless-steel tip Side Rotary, Fork Lever Lock (Yoke) 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 3241-M = Front/Back Facing metallic rollers, 90° travel 3242-M = Front/Back Facing metallic rollers, 90° travel 3243-M = Front Facing metallic rollers, 90° travel 3244-M = Back Facing metallic rollers, 90° travel Over Travel, 90° travel 7204 = Side rotary, metallic roller 7204-PT = Side rotary, Teflon 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-PT = Side rotary, adjustable Teflon roller 7208-26 = Side rotary, adjustable ø50mm rubber roller	<i>Blank=PF1/2"</i> M20=M20 thread (cable gland excluded)  Basic type  Overtravel type

◆ Dimensions & Operating Characteristics

*Measurements in millimeters



MJ-7101



MJ-7102



MJ-7102R



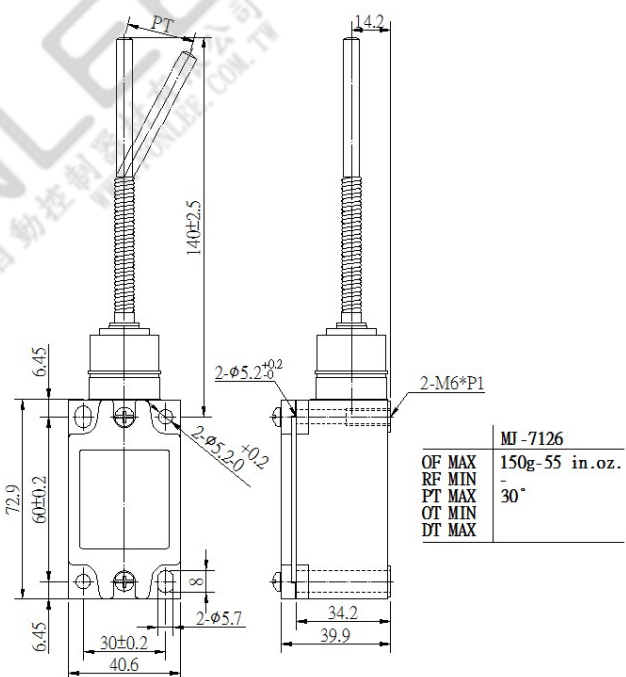
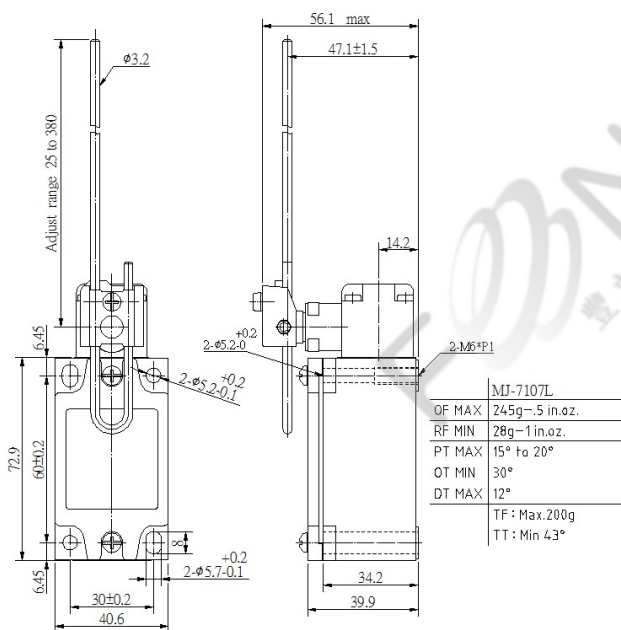
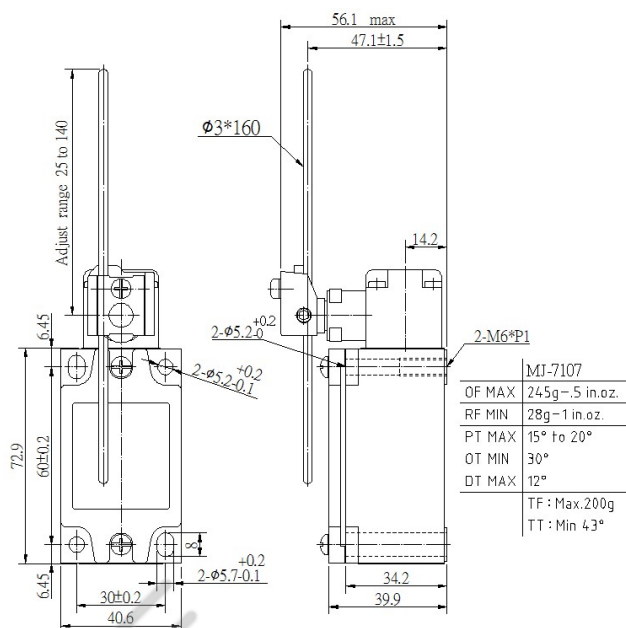
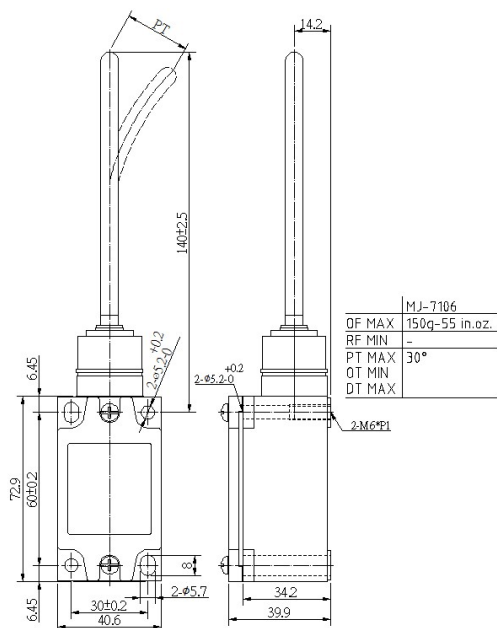
MJ-7103



MJ-7104



MJ-7104-26



MJ-7106



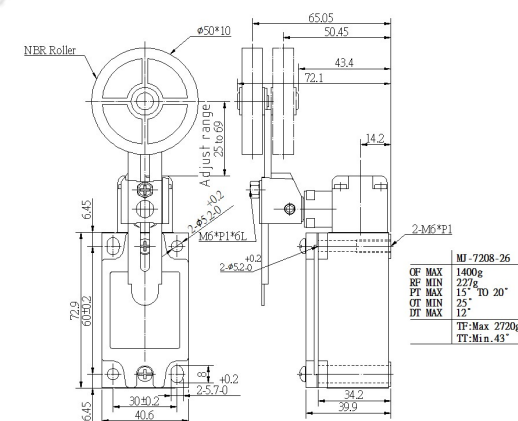
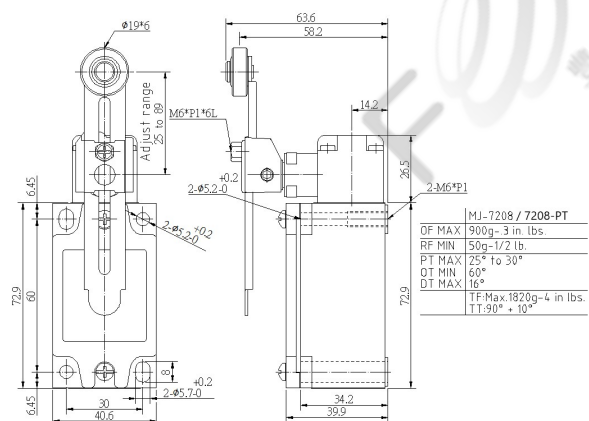
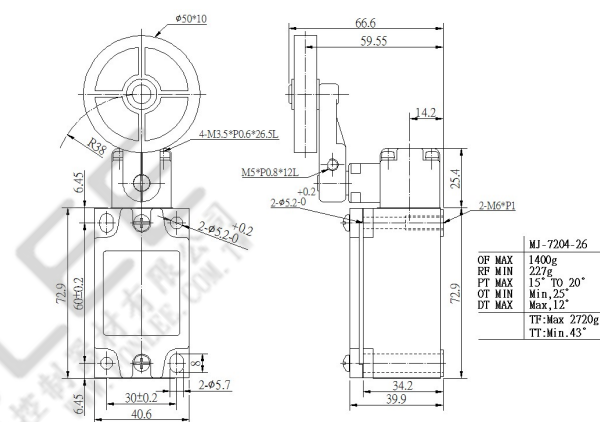
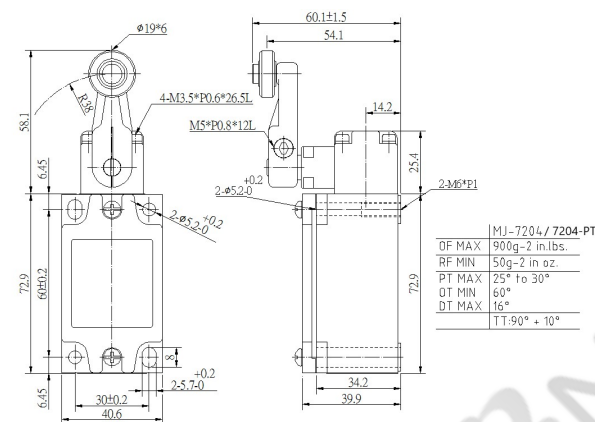
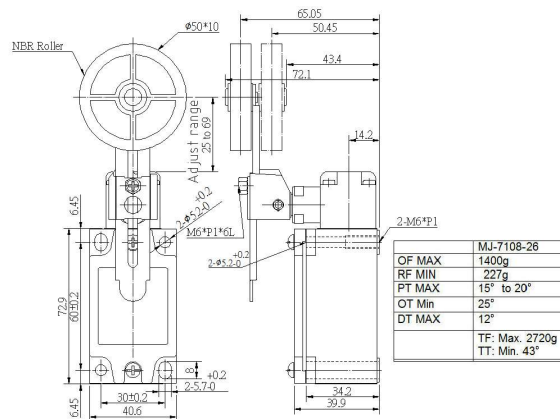
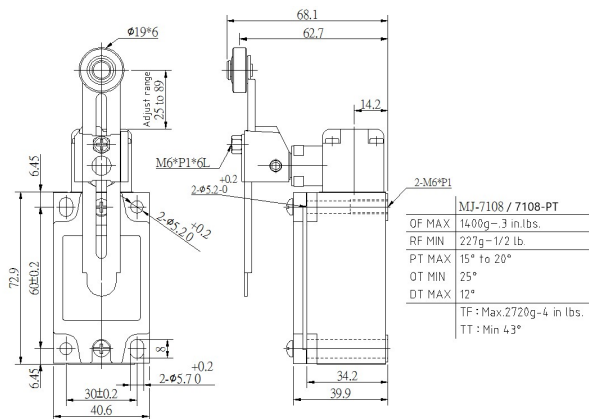
MJ-7107



MJ-7107L



MJ-7126



MJ-7108



MJ-7108-26



MJ-7204



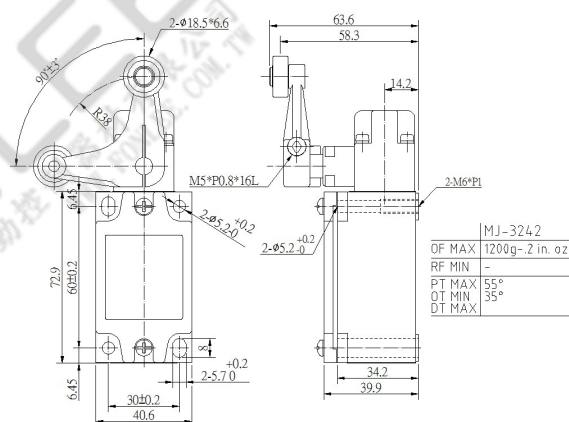
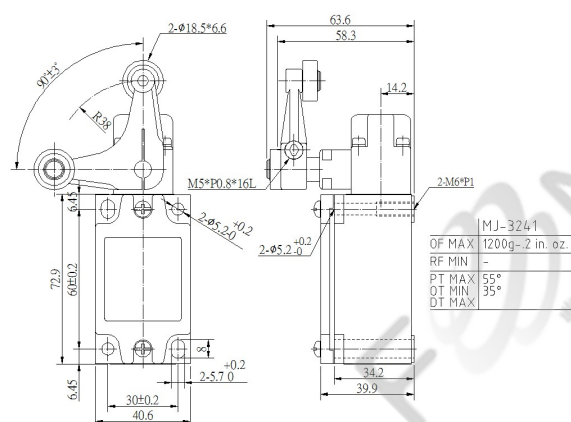
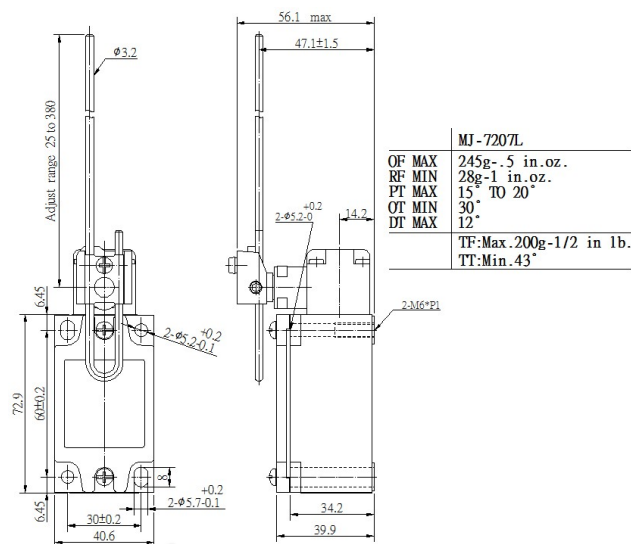
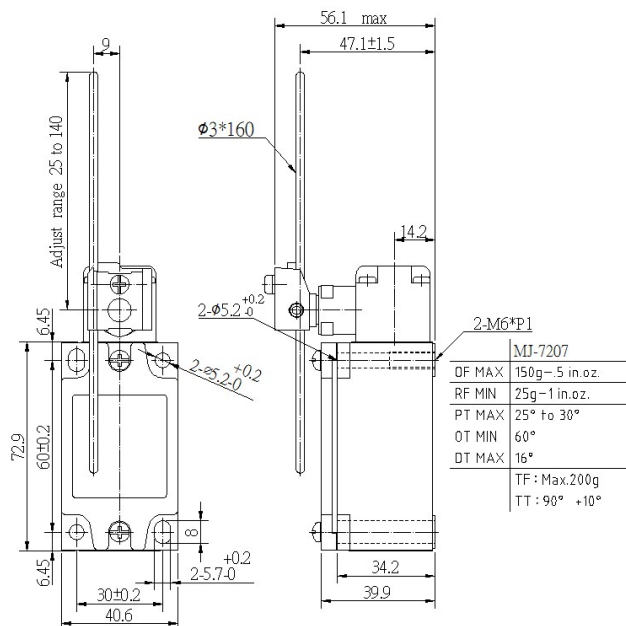
MJ-7204-26



MJ-7208



MJ-7208-26



MJ-7207



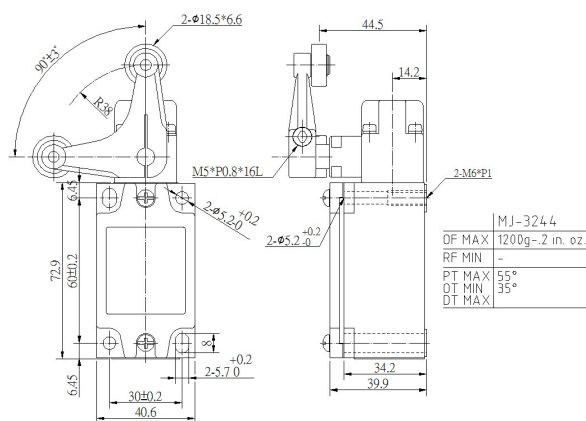
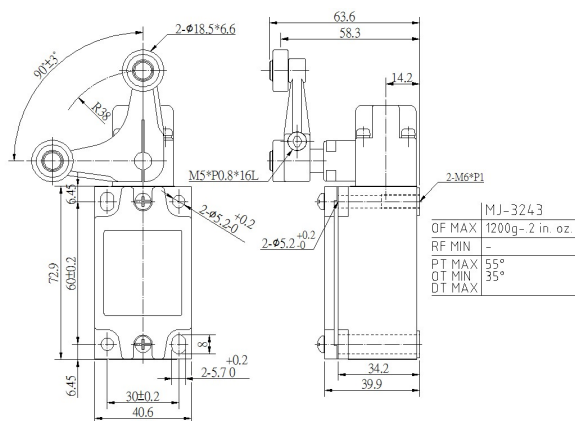
MJ-7207L



MJ-3241



MJ-3242



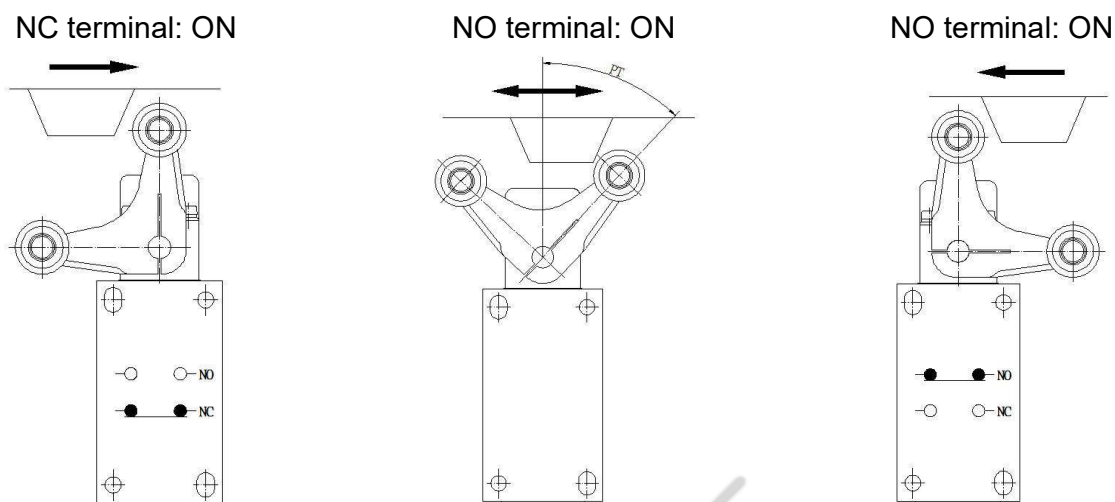
MJ-3243



MJ-3244

◆ Handling and Usage

Operation of Fork Lock Lever switches:



Fork Lock Lever roller positions:

