

Best-Selling Basic Switch Boasting High Precision and Wide Variety

FEATURES

- Wide variety of actuators
- High precision
- High breaking capacity (15A)
- Wide operating speed range

RATINGS

Rated Voltage (V)	Noninductive load (A)				Inductive load (A)				Inrush Current (A)	
	Resistive Load		Lamp load		Inductive load		Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	15		3	1.5	15		5	2.5	30 max	15 max.
250 VAC	15		2.5	1.25	15		3	1.5		
500 VAC	3		1.5	0.75	2.5		1.5	0.75		
8 VDC	15		3	1.5	15		5	2.5		
14 VDC	15		3	1.5	10		5	2.5		
30 VDC	6 (2)		3	1.5	5		5	2.5		
125 VDC	0.4		0.4	0.4	0.05		0.05	0.05		
250 VDC	0.2		0.2	0.2	0.03		0.03	0.03		

NOTES :

1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 msec (DC)

2. Lamp load has an inrush current of 10 times the steady-state current. While motor load has an inrush current of 6 times the steady-state current.

CHARACTERISTICS

Operating speed	0.01 mm to 1 m/sec
Operating frequency	Mechanically : 240 Operations/min. Electrically : 20 operations/min.
Contact resistance	15 mΩ max. (initial)
Insulation resistance	100 mΩ min. (at 500 V DC)
Dielectric strength	1,000 VAC, 50/60 Hz for 1 minute between non-continuous terminals 2,000 VAC, 50/60 Hz for 1 minute between current carrying part and ground
Vibration	Mechanically durability : 10 to 55 Hz 1.5 mm double amplitude
Shock	Mechanically durability : Approx. 1,000 m/sec ² (approx: 100 G's) Malfunction durability : Approx. 300 m/sec ² (approx. 30G's)
Ambient operating temperature	General purpose type : -25° to +80°C Sealed type: -15° to 80°C
Humidity	General purpose type : 85% RH max Sealed type: 95% RH
Service life	Mechanically : 20,000,000 Operations min Electrically : 500,000 operations min.
Weight	Approx. 22 to 58g

OPERATION CHARACTERISTIC

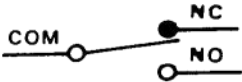
ราคานี้อาจเปลี่ยนแปลงโดยไม่ต้องแจ้งให้ทราบล่วงหน้า

TYPE	TM 1300	TM 1301	TM 1303	TM 1305	TM 1306	TM 1307	TM 1308	TM 1309
OF max	350 g	150 g	150 g	350 g	350 g	350 g	350 g	350 g
RF min	114 g	14g	14g	114 g	114 g	114 g	114 g	114 g
PT max	0.4 mm	4 mm	4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
OT min	0.13 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm	5.5 mm	3.58 mm	3.58 mm
MD max	0.05 mm	1.3 mm	1.3 mm	0.05 mm	0.056 mm	0.05 mm	0.05 mm	0.05 mm
FP max.		20.6 mm	31.8 mm					
OP	15.9 ±0.4 mm	17.4 ±0.8 mm	28.6 ±0.8 mm	28.2 ±0.5 mm	21.5 ±0.5 mm	21.8 ±0.8 mm	33.4 ±1.2 mm	33.4 ±1.2 mm

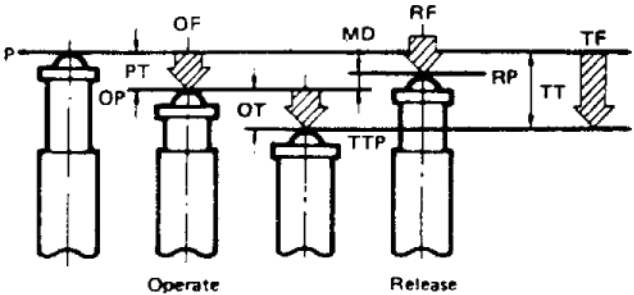


Z-15 SERIES :
15A 125, 250 or 480 VAC
1/2A 125 VDC, 1/4 250 VDC
1/8 HP 125 VAC, 1/4 HP 250 VAC

CONTACT CONFIGURATION



DEFINITIONS OF OPERATING CHARACTERISTICS



- OF : Operating Force
- RF : Releasing Force
- TF : Total Force
- FP : Free Position
- OP : Operating Position
- RP : Releasing Position
- TTP : Total Travel Position
- PT : Pretravel
- OT : Overtravel
- MD : Movement Differential
- TT : Total Travel

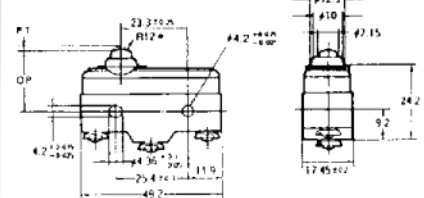
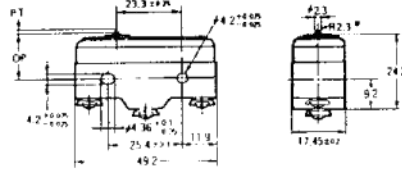
DIMENSIONS

TM 1300 (Z-15G-B) 15A 250VAC
TM 1300-2 20A 250V

@ n/a
@ n/a

TM 1306 (Z-15GD-B) 15A 250VAC
TM 1306-2 20A 250V

@ n/a
@ n/a

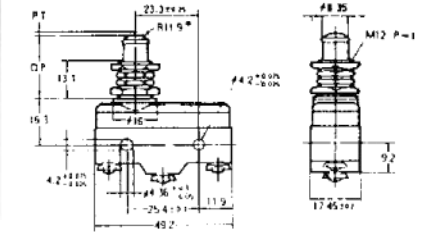
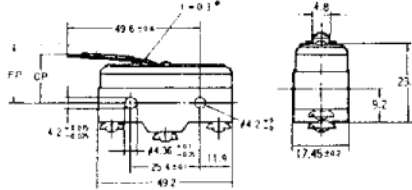
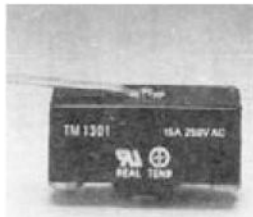


TM 1301 (Z-15GL-B) 15A 250VAC
TM 1301-2 20A 250V

@ n/a
@ n/a

TM 1307 (Z-15GQ-B) 15A 250VAC
TM 1307-2 20A 250V

@ n/a
@ n/a

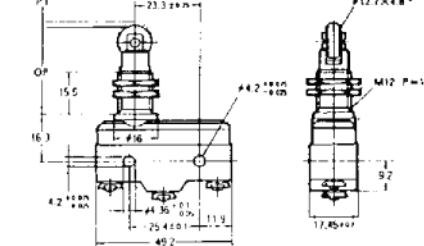
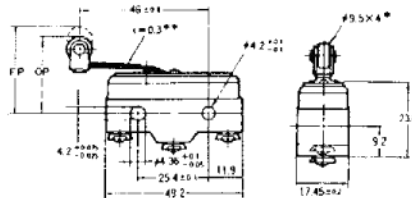
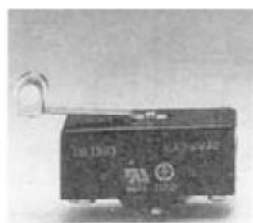


TM 1303 (Z-15GL2-B) 15A 250VAC
TM 1303-2 20A 250V

@ n/a
@ n/a

TM 1308 (Z-15GQ22-B) 15A 250VAC
TM 1308-2 20A 250V

@ n/a
@ n/a

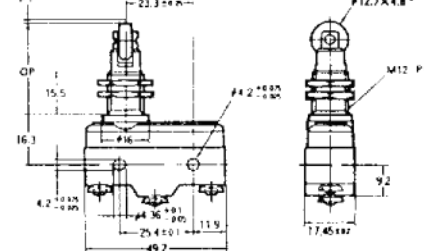
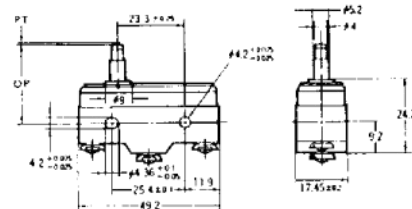


TM 1305 (Z-15GS-B) 15A 250VAC
TM 1305-2 20A 250V

@ n/a
@ n/a

TM 1309 (Z-15GQ21-B) 15A 250VAC
TM 1309-2 20A 250V

@ n/a
@ n/a



OPERATION CHARACTERISTIC

TYPE	TM1701	TM1702	TM1703	TM1704	TM1705	TM1743	TM1401	TM1501
OF max	70 g	100 g	160 g	160 g	10 g	160 g	600 g	500 g
RF min	14 g	28 g	22 g	42 g	3 g	42 g	300 g	170 g
PT max	10 mm	5 mm	7.1 mm	2.7 mm	20 mm	2.7 mm	3 mm	5 mm
OT min	5.6 mm	2 mm	4 mm	2.4 mm	5.6 mm	2.4 mm	6 mm	12.7 mm
MD max	1.27 mm	1 mm	1.02 mm	0.5 mm	3 mm	0.5 mm	2 mm	2.2 mm
FP max.	28.2 mm	24.8 mm	36.5 mm	32.5 mm		43.6 mm	41 ±1.6 mm	44.5 ±1.6 mm
OP	19 ±0.8 mm	19 ±0.8 mm	30.2 ±0.8 mm	30.2 ±0.4 mm	19 ±0.8 mm	43.1 ±0.8 mm	40.4 ±1.6 mm	40.4 ±1.6 mm

ราคานี้อาจเปลี่ยนแปลงโดยไม่ต้องแจ้งให้ทราบล่วงหน้า

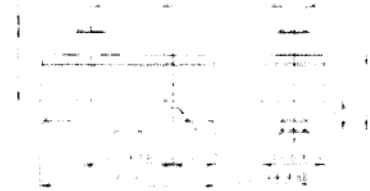
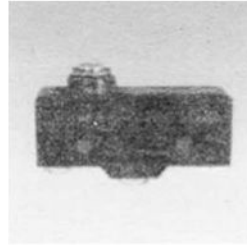
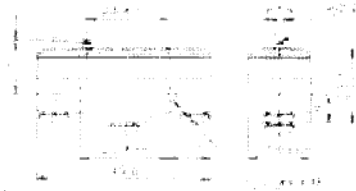
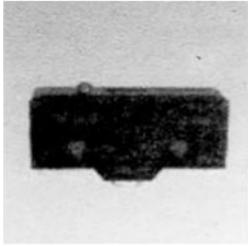
■ DIMENSIONS

TM 1300-1 (15 A 250 VAC)

@ n/a

TM 1306-1 (15 A 250 VAC)

@ n/a

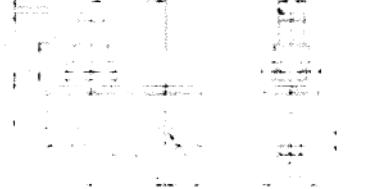
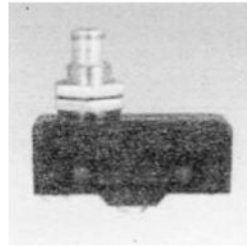
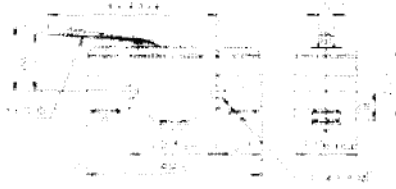
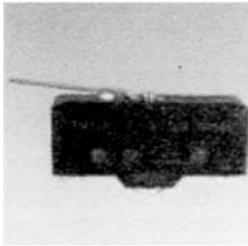


TM 1301-1 (15 A 250 VAC)

@ n/a

TM 1307-1 (15 A 250 VAC)

@ n/a

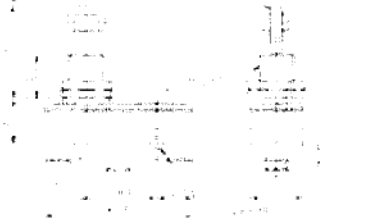
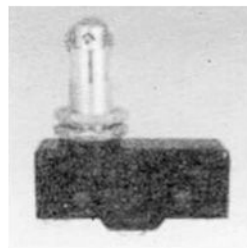
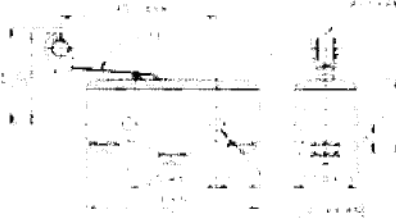
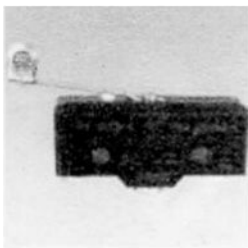


TM 1303-1 (15 A 250 VAC)

@ n/a

TM 1308-1 (15 A 250 VAC)

@ n/a

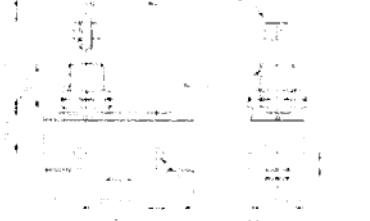
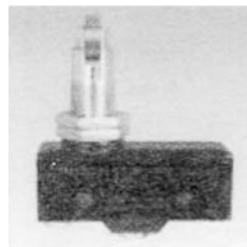
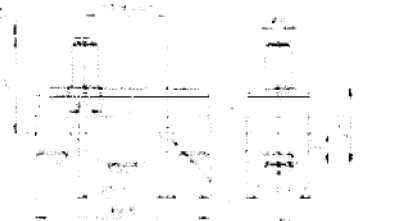
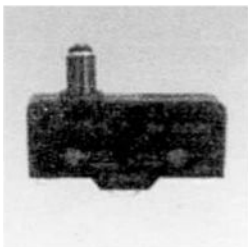


TM 1305-1 (15 A 250 VAC)

@ n/a

TM 1309-1 (15 A 250 VAC)

@ n/a



■ OPERATION CHARACTERISTIC

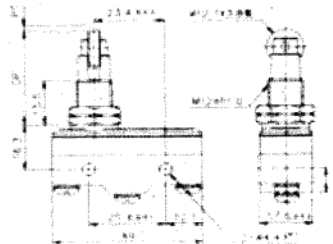
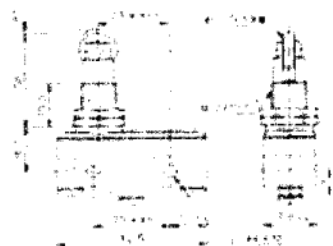
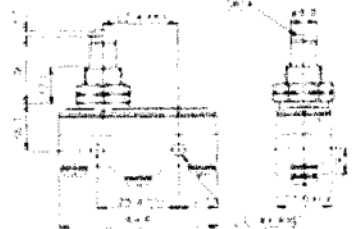
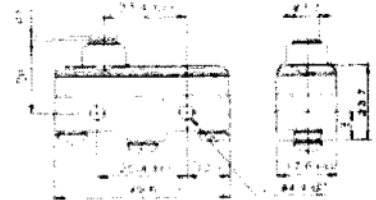
TYPE	TM1300-1	TM1301-1	TM1303-1	TM1305-1	TM1306-1	TM1307-1	TM1308-1	TM1309-1
OF max	500 g	400 g	400 g	500 g	500 g	500 g	500 g	500 g
RF min	114 g	50 g	50 g	114 g	114 g	114 g	114 g	114 g
PT max	0.4 mm	4 mm	4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
OT min	0.13 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm	5.5 mm	3.58 mm	3.58 mm
MD max	0.05 mm	1.3 mm	1.3 mm	0.05 mm	0.05 mm	0.05 mm	0.05 mm	0.05 mm
FP max.		20.6 mm	31.8 mm					
OP	15.9 ±0.4 mm	17.4 ±0.8 mm	28.6 ±0.8 mm	28.2 ±0.5 mm	21.5 ±0.5 mm	21.8 ±0.8 mm	33.4 ±1.2 mm	33.4 ±1.2 mm

ราคานี้อาจเปลี่ยนแปลงโดยไม่ต้องแจ้งให้ทราบล่วงหน้า

UL SP ECE TM

ISO 9002

@ n/a



87

TM1701 (15A 250VAC)

@ n/a

TM1702 (15A 250VAC)

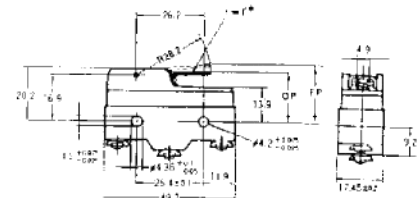
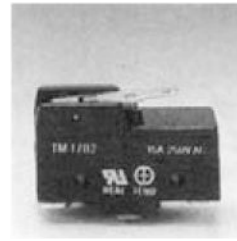
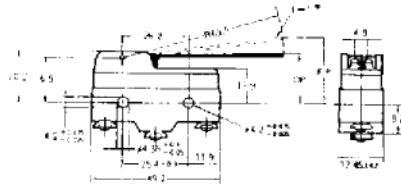
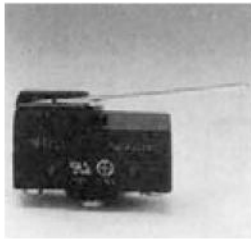
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TM1701-2 20A 250V

@ n/a

TM1702-2 20A 250V

@ n/a



TM1703 (15A 250VAC)

@ n/a

TM1704 (15A 250VAC)

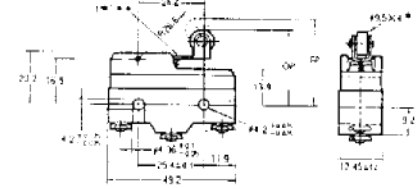
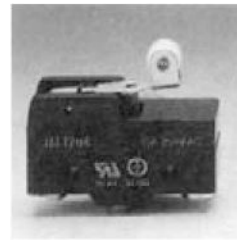
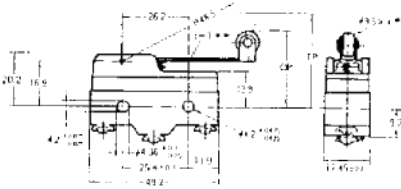
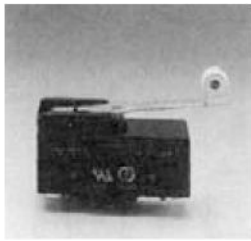
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TM1704-2 20A 250V

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TM1743 (15A 250VAC)

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TM1705 (15A 250VAC)

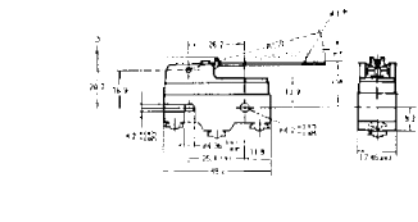
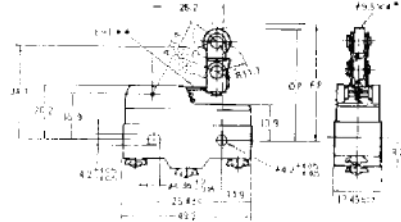
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TM1743-2 20A 250V

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TM1705-2 20A 250V

@ n/a



TM1401 (15A 250VAC)

@ n/a

TM1501 (15A 250VAC)

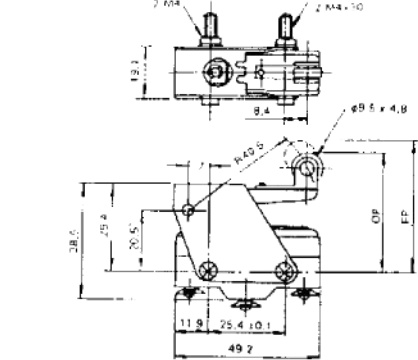
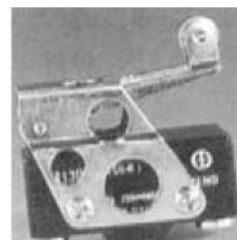
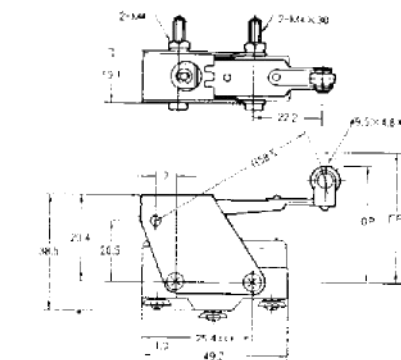
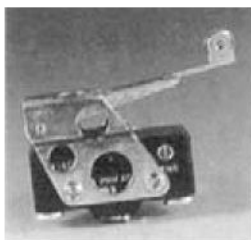
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TM1401-2 20A 250V

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TM1501-2 20A 250V

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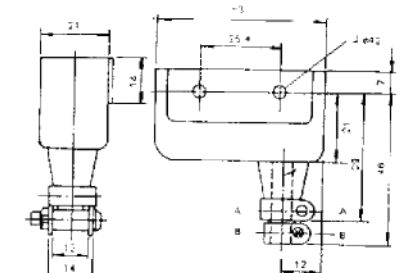
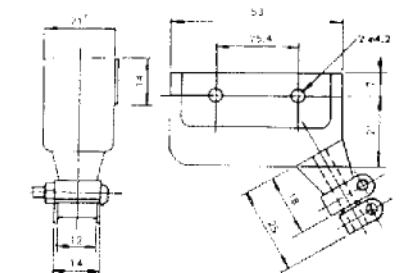
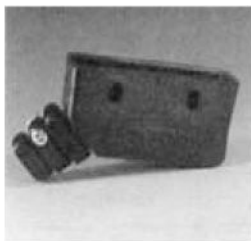


TAP-Y

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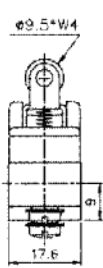
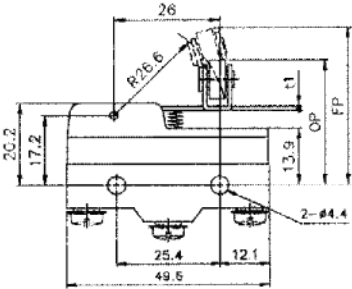
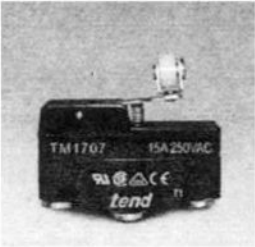
TAP-Z

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TM1707

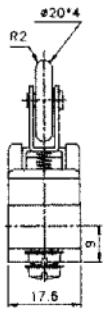
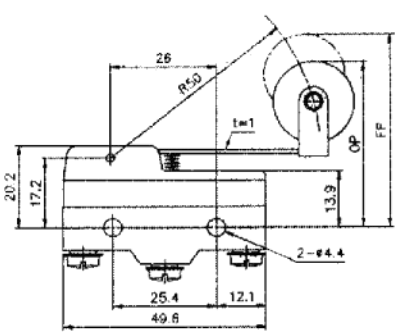
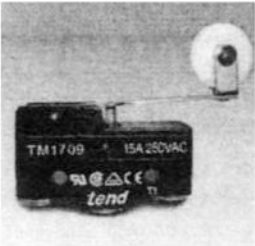
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OF max	170 g
RF min	42 g
PT max	2.7 mm
OT min	2.4 mm
MD max	0.5 mm
FP max.	34 mm
OP	31 ±0.4 mm

TM1709

@ n/a



OF max	100 g
RF min	21 g
PT max	7.2 mm
OT min	4 mm
MD max	1.6 mm
FP max.	47.5 mm
OP	41.2 ±0.8 mm