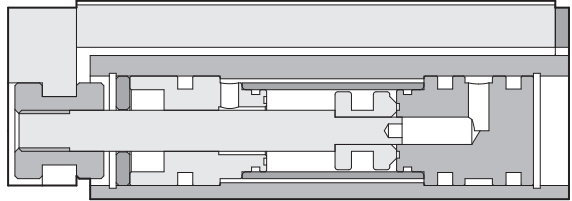
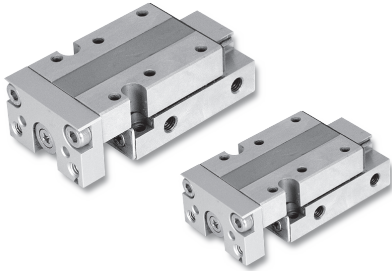


# MTX series Air Slide Table

Product features/ Code of order

CHELIC

## Internal structure



## Specification

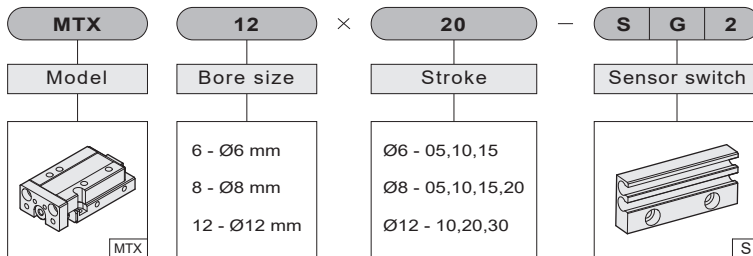
Item	Bore size	06	08	12
Action		Double acting		
Fluid		Air		
Pressure range	kgf/cm <sup>2</sup> (kPa)	2 ~ 6 (200 ~ 600)		
Max. operating pressure	kgf/cm <sup>2</sup> (kPa)	6.5 ( 650 )		
Ambient and fluid temperature	°C	0 ~ 60		
Piston speed	mm/sec	100 ~ 500		
Lubrication		Lubrication free type		
Port size		M3		M5
Cushion		Rubber cushion		

## Standard stroke (MTX series)

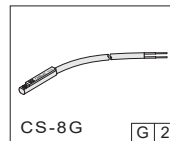
Unit: mm

Bore size	Stroke
Ø6	05, 10, 15
Ø8	05, 10, 15, 20
Ø12	10, 20, 30

## Code of order



MTX:  
Slide table



None :

Without magnet and sensor switch holder

S : With magnet and sensor switch holder

G : Sensor switch mark ( CS-8G )

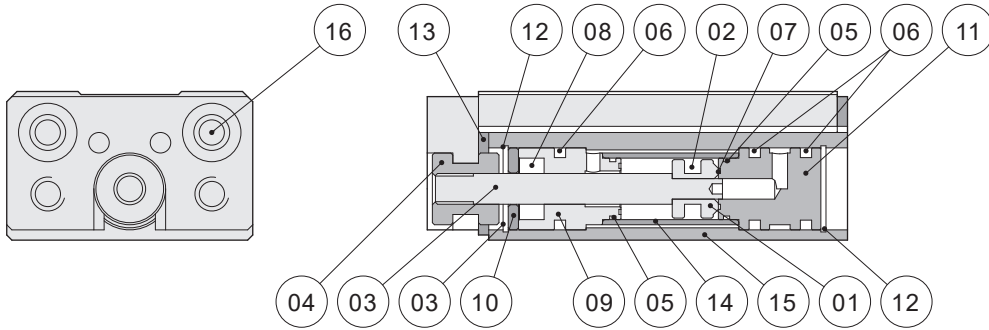
2 : Quantity of Sensor switch  
1 = 1 PCS 2 = 2 PCS (Option)

# MTX series Air Slide Table

## Product features

CHELIC

### Internal structure



### Components and material list

No	Item	Material	No	Item	Material
01	Piston	Aluminum alloy	09	Front cover	Copper
02	Piston packing	NBR	10	Packing plate	Aluminum alloy
03	Shaft	Stainless steel	11	Rear cover	NBR
04	Shaft end block	Carbon steel	12	C clip	Alloy steel
05	O-ring	NBR	13	Front block	Stainless steel
06	O-ring	NBR	14	Bush	Stainless steel
07	O-ring	NBR	15	Body	Stainless steel
08	Shaft packing	NBR	16	End cap set screw	Alloy steel

### Product weight

Model	Stroke	Weight(kg)
MTX-6	05 st	0.09
	10 st	0.12
	15 st	0.15
MTX-8	05 st	0.13
	10 st	0.15
	15 st	0.17
MTX-12	20 st	0.19
	10 st	0.20
	20 st	0.30
	30 st	0.40

### Packing and O-ring material list

Unit: mm

Item	Piston packing	Shaft packing	Front cover O-ring		Rear cap O-ring	
Quantity	1	1	1	1	1	2
Bore size						
Ø6	COP-06	MYA-03	Ø5 x Ø0.48	Ø6 x Ø1	Ø5 x Ø0.48	Ø6 x Ø1
Ø8	COP-08	MY-5A	Ø6 x Ø0.9	Ø8 x Ø1	Ø6 x Ø0.9	Ø8 x Ø1
Ø12	COP-12	DYR-06	Ø10 x Ø1	Ø12 x Ø1	Ø10 x Ø1	Ø12 x Ø1

Note: The piston packing and shaft packing are from MITSUBISHI, SAKAGAMI or the same good level of quality material.

MSR(L)2

FMR(L)

MQX

MTX

MDQ2

MDQA

MDX

MDXL

MBX

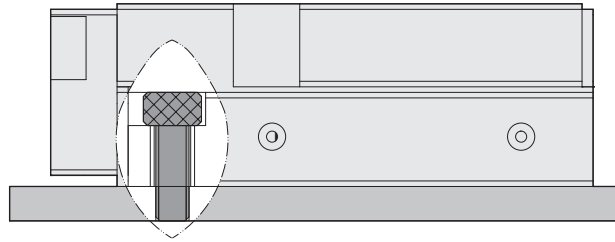
MGX

# MTX series Air Slide Table

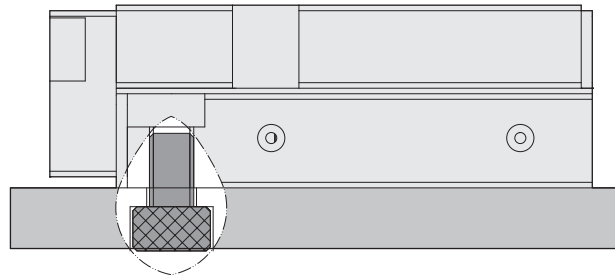
## Mounting type, Installation

CHELIC

### Mounting type

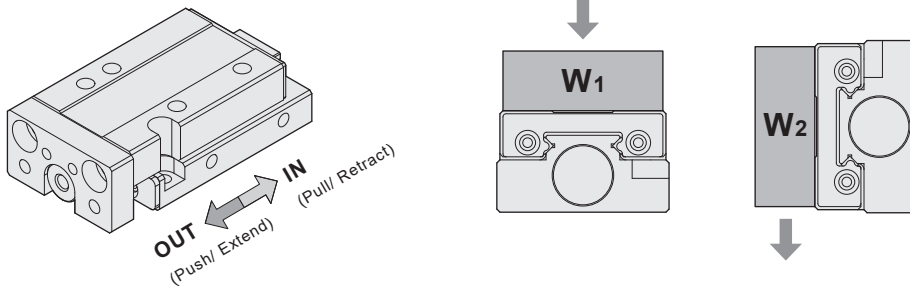


Top mounting



Bottom mounting

### Theoretical Output • Maximum allowable load weight



Unit: kg

Bore size	Piston action	Air pressure ( kgf/cm <sup>2</sup> )				
		2	3	4	5	6
Ø06	OUT	0.56	0.84	1.12	1.40	1.68
	IN	0.42	0.63	0.84	1.05	1.26
Ø08	IN	1.00	1.50	2.00	2.50	3.00
	OUT	0.60	0.90	1.20	1.50	1.80
Ø12	IN	2.26	3.39	4.52	5.65	6.78
	OUT	1.70	2.55	3.40	4.25	5.10

Bore size	Maximum allowable load weight	
	Front loading ( W <sub>1</sub> )	Side loading ( W <sub>2</sub> )
Ø06	0.21	0.16
Ø08	0.37	0.22
Ø12	0.84	0.63

※ Note: Above are theoretical data for reference. While applying the product, please do consider the frictional resistance and the mechanical efficiency of value should be added calculation before using. (Above 70% ~ 80%)

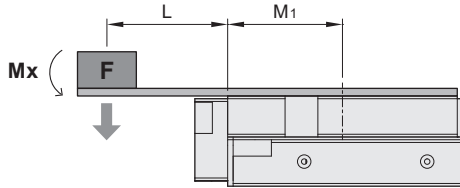
# MTX series Air Slide Table

## Installation

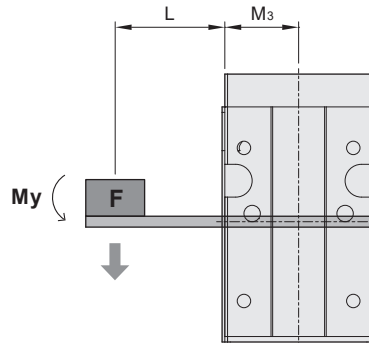
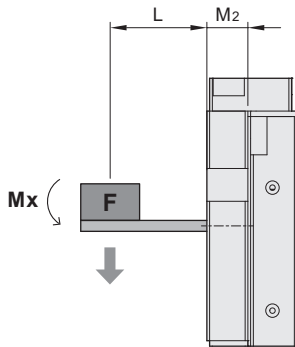
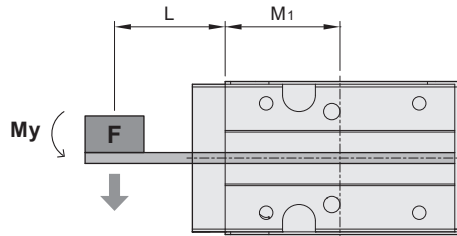
CHELIC

### Allowable static load

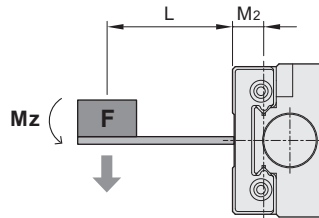
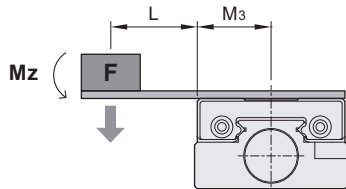
#### Pitch moment



#### Yaw moment



#### Rolling moment



Bore size	Stroke	M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>	Allowable static load M <sub>max</sub> ( kgf · cm )		
					MSR(L)2	FMR(L)	MQX
Ø06	05	17.5	6.0	11.0	4.14	4.14	7.59
	10	20.0			4.14	4.14	7.59
	15	24.5			4.97	4.97	8.86
Ø08	05	19.0	5.7	13.5	4.97	4.97	10.58
	10	21.0			4.97	4.97	10.58
	15	24.0			4.97	4.97	10.58
	20	27.5			5.80	5.80	12.10
Ø12	10	22.5	7.0	16.0	10.00	10.00	35.23
	20	31.0			14.28	14.28	48.44
	30	38.5			17.14	17.14	48.44

#### Description:

M<sub>1</sub> :The center distance between slider surface to slider.  
 M<sub>2</sub> :The center distance between slider to cylinder body.  
 M<sub>3</sub> :The center distance between slider surface to slider.

#### Note:

- 1.Do not exceed the indicated load weight.
- 2.Avoiding striking with external force.
- 3.Inertia weight shall be applied in 1/10 of static load.

MSR(L)2

FMR(L)

MQX

MTX

MDQ2

MDQA

MDX

MDXL

MBX

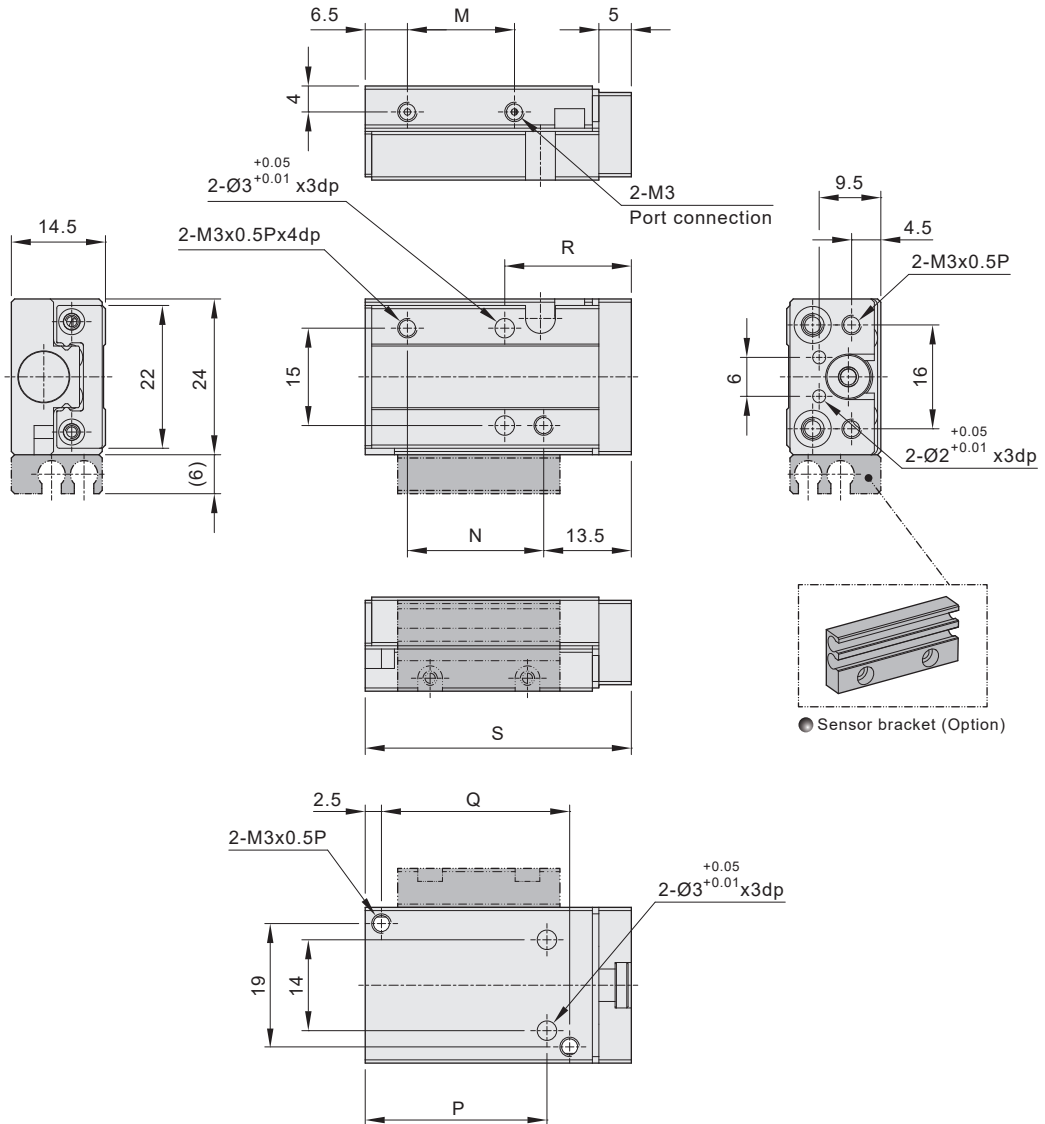
MGX

# MTX series Air Slide Table

## Dimensions

CHELIC

○ MTX 06 x □ ST



Unit: mm

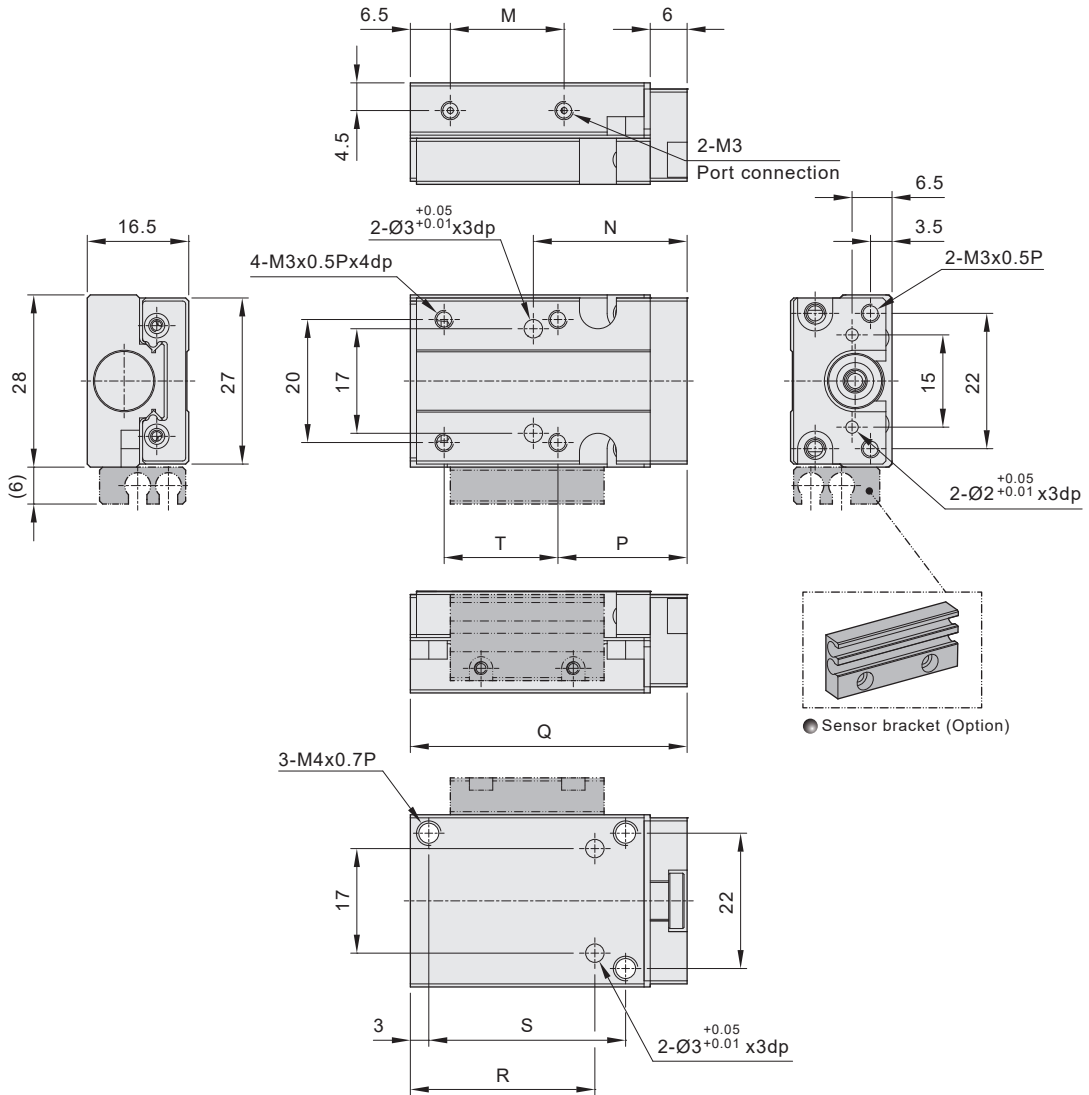
Model	M	N	S	P	Q	R
MTX 06x05	16.5	21	41	28	29	19.5
MTX 06x10	21.5	26	46	33	34	24.5
MTX 06x15	30.5	35	55	42	43	29.5

# MTX series Air Slide Table

## Dimensions

CHELIC

○ MTX 08 x □ ST



MSR(L)2

FMR(L)

MQX

MTX

MDQ2

MDQA

MDX

MDXL

MBX

MGX

Unit: mm

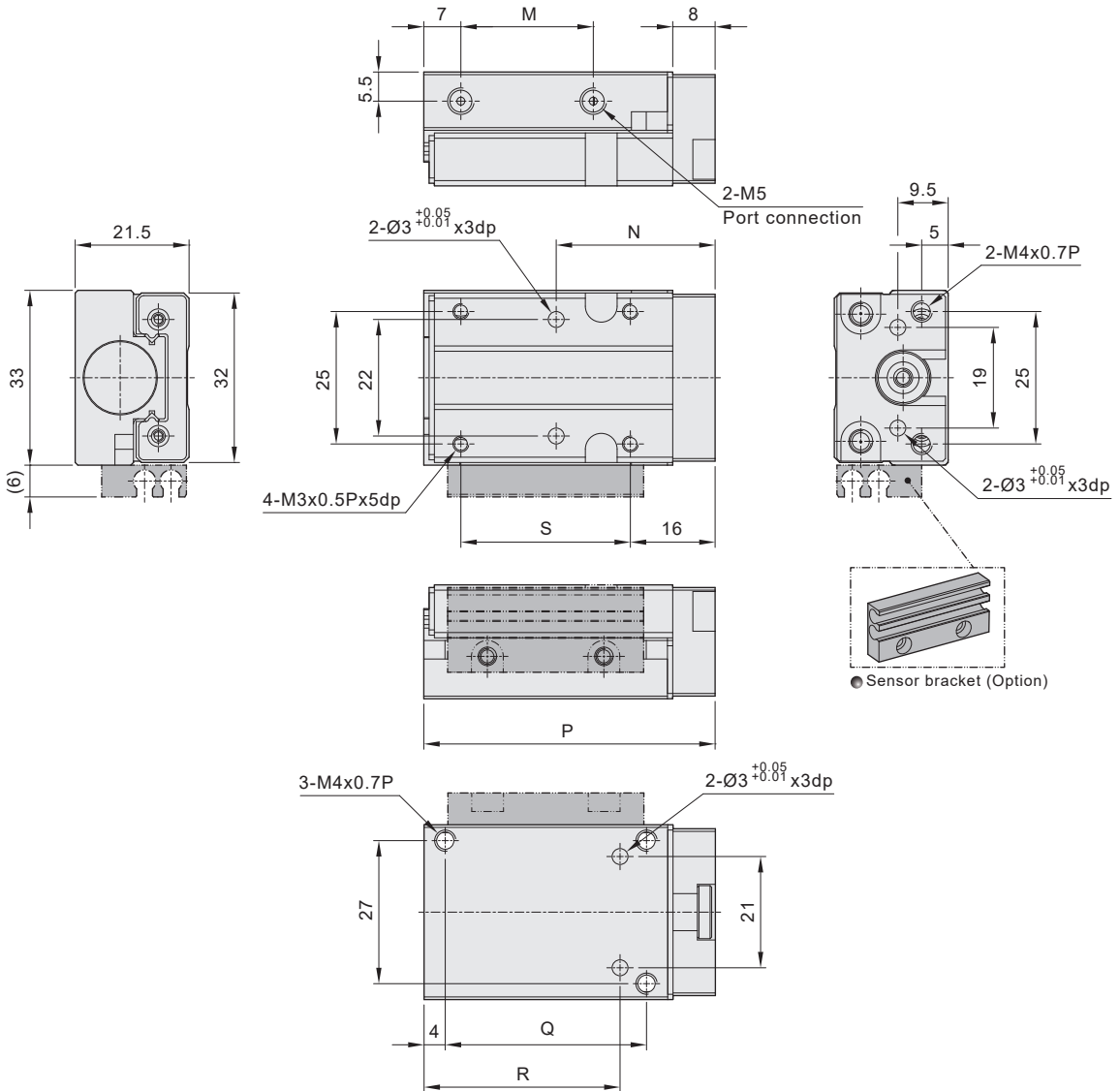
Model	M	N	T	P	Q	R	S
MTX 08x05	18.5	25.0	18.5	21.0	45	30	32
MTX 08x10	22.5	25.5	28.0	13.5	49	33	35
MTX 08x15	28.5	32.5	35.0	13.5	55	40	42
MTX 08x20	35.5	39.5	42.0	13.5	62	47	49

# MTX series Air Slide Table

## Dimensions

CHELIC

MTX 12 x  ST



Unit: mm

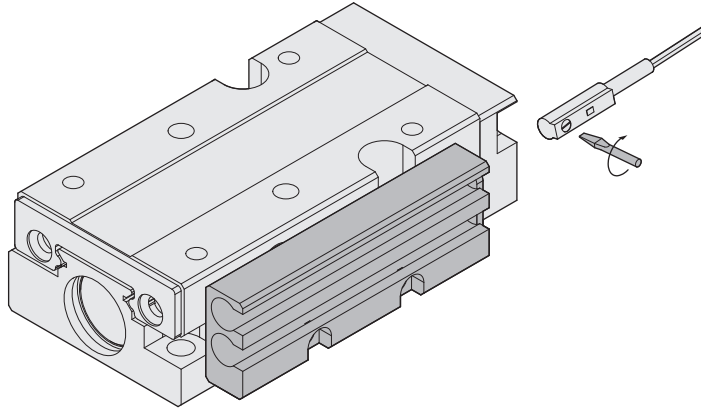
Model	M	N	S	P	Q	R
MTX 12x10	25	30	32	55	38	37
MTX 12x20	42	40	50	72	55	54
MTX 12x30	57	50	60	87	70	69

# MTX series Air Slide Table

## Sensor switch operating range and the setting

CHELIC

### Sensor switch mounting type



### Sensing range

Sensor switch is fixed on the cylinder body. The magnetic piston head will activate the Sensor switch when it enters the operating range. It has 0.5mm differential.

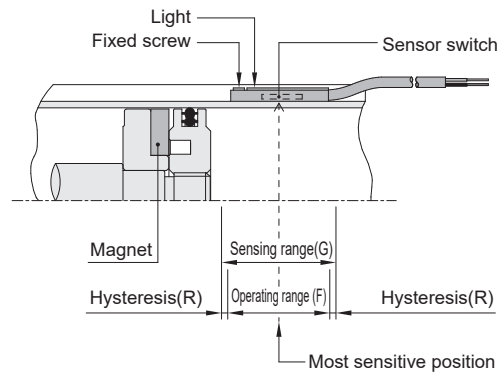
### Operating range

When piston head moves the switch setting and adjustment will be based on the responding range generated by the magnetic field and the switch. (Please refer to the below table)

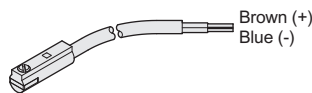
Unit: mm

Model	CS-8G	
Bore size	Operating range (F)	Hysteresis(R)
06	2.5	1
08	4.0	1
12	4.5	1

### Sensor switch setting and operating range



### Sensor switch introduction



**CS-8G**

Voltage: DC 5~30V

MSR(L)2

FMR(L)

MQX

MTX

MDQ2

MDQA

MDX

MDXL

MBX

MGX