

Signal & Micro Indicator

CITIZEN TRI-METRON Signal Indicators

FEATURES

A signal indicator with electric contacts installed in a microindicator can deliver signals for distinguishing measured states in 3 ranks or 5 ranks. Signal indicators are widely used not only in watch production lines but also in production lines of automobile engines, bearings, etc., to allow automatic inspection and sorting.

[1S series]

- Smaller size ————— Because of the small size, the indicator can be installed in narrower space
- Durability ————— Ball sliding adopted for the spindle action enhances the durability
- Environment resistance — Resistance against dust and drips is improved. The signal indicator can be used reliably at sites of processing and assembling

1S-010BF

Fail safe
Graduation / 10 μ m
Range / ± 0.5 mm



1S-100

Graduation / 1 μ m
Range / ± 0.05 mm



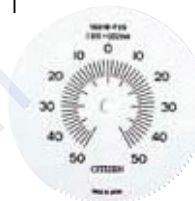
1S-010

Graduation / 10 μ m
Range / ± 0.5 mm



1S-010-FIS

High-speed type
Graduation / 20 μ m
Range / ± 0.5 mm



[2S series]

- The dial is large, to allow easy reading
- Low-priced

2S-100

Graduation / 1 μ m
Range / ± 0.05 mm



2S-200

Graduation / 2 μ m
Range / ± 0.1 mm



2S-010

Graduation / 10 μ m
Range / ± 0.6 mm



2S-010-FIS

Graduation / 20 μ m
Range / ± 0.5 mm



SPECIFICATIONS

Model	1S-010BF	1S-100	1S-010	1S-010-FIS	2S-100	2S-200	2S-010	2S-010-FIS
Graduation	10 μ m	1 μ m	10 μ m	20 μ m	1 μ m	2 μ m	10 μ m	20 μ m
Range	± 0.5 mm	± 0.05 mm	± 0.5 mm	± 0.5 mm	± 0.05 mm	± 0.1 mm	± 0.6 mm	± 0.5 mm
Accuracy	$\pm 6\mu$ m	$\pm 1\mu$ m	$\pm 5\mu$ m	$\pm 15\mu$ m	$\pm 1\mu$ m	$\pm 1.5\mu$ m	$\pm 5\mu$ m	$\pm 15\mu$ m
Measuring force		0.98N		0.78N		1.18N		0.78N
Spindle stroke		2.5mm			2.8mm			
Contact rating	1mA or less in internal circuit			DC 24 V 4 mA (resistance load)				
Standard attachments	Contact point*1	F-001						
	Back*2	Flat back (F-M107)	Flat back (F-M103-1)			Flat back (F-M101)		
	Cable	2m	1.5m					
	Rubber bellows	M-131					*3	
Option	Release	-	M-140					

- In 1S series, the contacts are insulated from the body. ○ In 2S series, the contacts are connected to the body.
- All the measuring forces are those in a state where no rubber bellows is attached. (Each measuring force is about 0.05 to 0.1 N higher if a rubber bellow is attached.)

*1 Various other contact points are available.

*2 Various other backs are available.

*3 In 2S series, the rubber bellows can be installed as an option.