# Solar Digital Calipers with ABSOLUTE System SUPER CALIPER



Catalog No. E4282-500

No battery or origin reset needed for IP67 digital caliper



# Top-of-the-line Digital caliper Solar ABSOLUTE System without battery achieves IP67 protection



## Specifications | Specif

	Order No.	Range	Resolution	Accuracy*1	Mass	
With data output	500-776	150mm	0.01mm	±0.02mm	180g	
	500-777	200mm			210g	
	500-786	6"/150mm	.0005"/	±0.01"/	.40 lbs.	
	500-787	8"/200mm	0.01mm	±0.02mm	.46 lbs.	
Without data output	500-774	150mm	0.01mm	±0.02mm	180g	
	500-775	200mm			210g	
	500-784	6"/150mm	.0005"/	±0.01"/	.40 lbs.	
	500-785	8"/200mm	0.01mm	±0.02mm	.46 lbs.	

<sup>\*1:</sup> Quantizing error ±1 count is not included.

#### **Features**

Functions	Origin setting, Error reporting
Protection level	IP67 (IEC60529)*2
Power supply	Solar cell*3
Maximum response speed	Unlimited

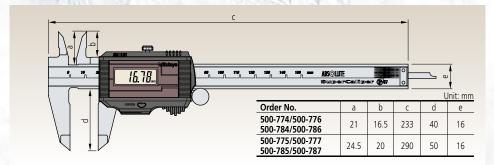
#### Functions

Origin setting	It is possible to change the ABS (origin) point.
Error reporting	When illumination is insufficient, or there are display
	irregularities due to contamination, an error message is
	displayed and operation is suspended so that measurement
	does not continue under the fault condition.

## Achieving IP67 protection level

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Туре	Level	Description			
Protection from solid objects (people or things)	6: Dust-tight	Protection against ingress of dust and full protection against contact			
Protection from liquids (water, etc.)	7: Protected against the effects of temporary immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed to a depth of 1 m in water under standardized conditions of pressure and time.			

#### **Dimensions**



# **Optional accessories**

### Water-resistant connection cable\*5

1 m cable: **No.05CZA624** 2 m cable: No.05CZA625





5 This connection cable is dedicated to the super caliper.

# DP-1VR **Digimatic Mini-processor**

No.264-504

(Data processing device for quality control applications)

# **MUX -10F Multiplexer** No.264-002

(Measurement data

transmission device)

# **USB Input Tool**

(Measurement data input device with USB keyboard signals)

No.264-012





<sup>\*2:</sup> Anti-corrosion treatment is required after use \*3: Can be used continuously above 60 lux ambient illumination.

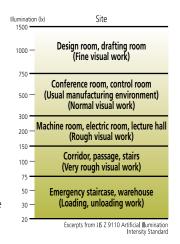
## About the charge function (SuperCaliper)

# The minimum illumination required in the uncharged state is 60 lux.

As shown in the table 'JIS Z 9110 Artificial Illumination Intensity Standard', this SuperCaliper can be used without problems in a normal work environment.

#### The charge function allows the operator to use this SuperCaliper without interrupting work even if the ambient illumination is temporarily insufficient.

- In the fully charged state this SuperCaliper can operate for approximately an hour in an environment of 50-lux illumination (less than the minimum necessary illumination intensity).
- The time necessary for full charge differs, depending on the charging conditions. If this SuperCaliper is left unused in an illumination of 500 lux (usual for manufacturing environments), it takes approximately one hour to reach full charge.



# Fluids against which this caliper is protected (for reference)

\* It has been proven that this SuperCaliper operated satisfactorily during IP67-level testing using the following fluid products

supplied by major manufacturers.

Water-insoluble cutting fluids

- Chlorine active sulfur
- Chlorine inert sulfur
- Active sulfur
- Inert sulfur

Water-soluble cutting fluids

- Emulsion
- Soluble
- Solution

Electrical discharge fluids Brake fluid

Cleaning fluid

Water-soluble cleaning fluid

Rust-preventive oil

#### PAT. JP3436510, US6329813 P. CN1272620A, EP1014041A1

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this pamphlet, as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs, dimensions and weights. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive.

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