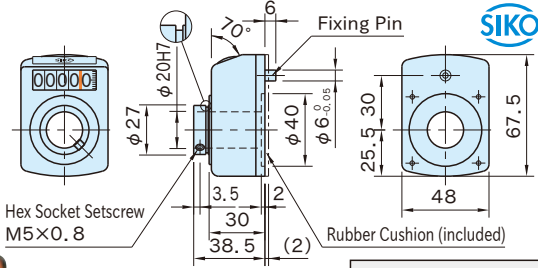


# SDP-09-N

# DIGITAL POSITION INDICATORS



Note : The flat-end fixing pin can not work to mark a fixing point.

Housing
Polyamide(nylon 6) plastic
Orange
Black(on request)
Grey(on request)
(- Housing color M : die-cast zinc matte chrome-plated(on request))

## Features

- Magnified digit display
- Using a shaft sleeve allows accepting a shaft of 12mm, 14mm, 15mm or 16mm diameter.
- Lightweight
- Displayed digit height : 7mm

## Technical Information

Working temperature : Up to 80°C

## Notes

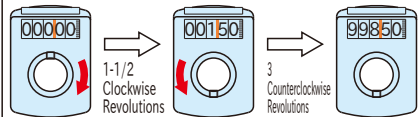
- Ensure that the start-up revolution speed is one-third or less times the allowable revolution speed.
- Do not give rapid acceleration or sudden stop.
- These position indicators can not be used in applications where the shaft moves in the axial direction.
- **SDP-09-HS** Sealing Plate can not be used with the rubbercushion or with **SDP-09-CP** Intermediate Plate.

## Installation Instructions

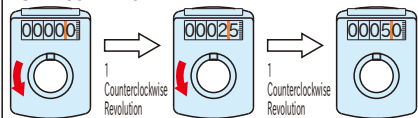
1. Stick the rubber cushion to the back of the indicator. Do not stick it when using the housing seal.
2. Drill a fixing-pin hole in the mounting wall, 30mm above the shaft center.
3. Slide the indicator onto the shaft to the mounting wall and then tighten the setscrew.

## Display Example

### •SDP-09FR-1.00N



### •SDP-09FL-2.5N



## Shaft Locking Solutions

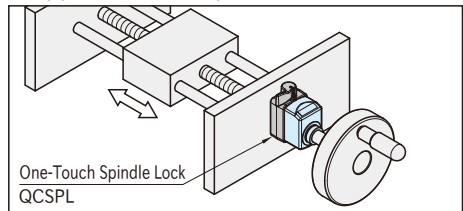
To prevent rotations due to machine vibration, use the following solutions.

- **SKP-09**      • **SKPZNO9**
- **SKPAR09**   • **QCSPL**

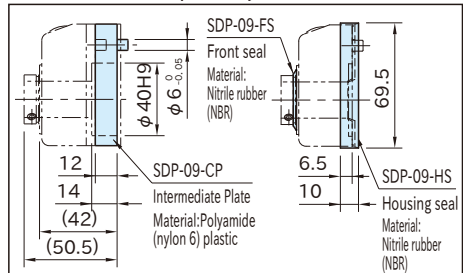
## Supplied with

One rubber cushion

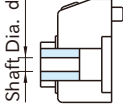
## Application Example



Intermediate Plate, Housing seal & Front seal (to be ordered separately)



Part Number	Weight (g)	Features
<b>SDP-09-CP</b>	15	• Use this Intermediate Plate if you want a <b>SDP-09-N</b> indicator to have the same indicator depth (50.5mm) as the old version ( <b>SDP-09</b> ). • Using the front seal and the housing seal together offers better airtightness.
<b>SDP-09-FS</b>	0.4	
<b>SDP-09-HS</b>	7.2	

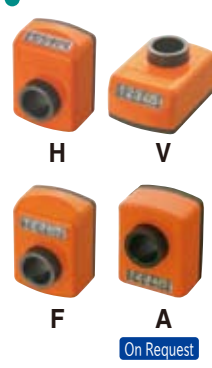
Type	Spindle Thread Pitch	Value Displayed After 1st Revolution		Allowable Revolution Speed (min <sup>-1</sup> )	Weight (g)	Shaft Sleeve (To be ordered separately)																		
		Indication	Display																					
SDP-09	0.5	<b>0.50</b>	00050	300	100*)	 <table border="1"> <thead> <tr> <th>Part Number</th> <th>d</th> </tr> </thead> <tbody> <tr><td>STS-12</td><td>12</td></tr> <tr><td>STS-14</td><td>14</td></tr> <tr><td>STS-15</td><td>15</td></tr> <tr><td>STS-16</td><td>16</td></tr> <tr><td>STS-12-SUS</td><td>12</td></tr> <tr><td>STS-14-SUS</td><td>14</td></tr> <tr><td>STS-15-SUS</td><td>15</td></tr> <tr><td>STS-16-SUS</td><td>16</td></tr> </tbody> </table>	Part Number	d	STS-12	12	STS-14	14	STS-15	15	STS-16	16	STS-12-SUS	12	STS-14-SUS	14	STS-15-SUS	15	STS-16-SUS	16
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	1	<b>1.00</b>	00100	150																				
1	<b>1.0</b>	00010																						
1.5	<b>1.5</b>	00015																						
2	<b>2.0</b>	00020	500																					
2.5	<b>2.5</b>	00025																						
3	<b>3.0</b>	00030																						
4	<b>4.0</b>	00040	375																					
5	<b>5.0</b>	00050	300																					
6	<b>6.0</b>	00060	250																					
8	<b>8.0</b>	00080	180																					
10	<b>10.0</b>	00100	150																					
Other Leads of Screw Available on Request				—																				

\*) 145 for housing type M

### Ordering Example

**SDP-09 H R - 1.0 N S -B**

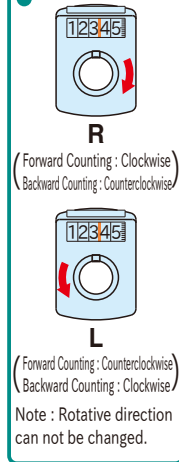
Style      Rotative Direction      Value Displayed After 1st Revolution      Shaft Sleeve      Housing Color



**H**      **V**

**F**      **A**

On Request




**R**

(Forward Counting : Clockwise  
Backward Counting : Counterclockwise)

**L**

(Forward Counting : Counterclockwise  
Backward Counting : Clockwise)

Note : Rotative direction  
can not be changed.




Unspecified  
(Steel)

**S**

(Stainless steel)

On Request



Unspecified  
(Orange)

**-B**  
(Black)

On Request

**-G**  
(Gray)

On Request

**-M**  
(Metal Housing  
only with steel  
shaft sleeve)

On Request