

# 2 Function integrated actuator.

LCM  
LCR  
LCG  
LCW  
LCX  
STM  
STG  
STS/STL  
STR2  
UCA2  
ULK\*  
JSK/M2  
JSG  
JSC3/JSC4  
USSD  
UFCD  
USC  
UB  
JSB3  
LMB  
LML  
HCM  
HCA  
LBC  
CAC4  
UCAC2  
CAC-N  
UCAC-N  
RCS2  
RCC2  
PCC  
SHC  
MCP  
GLC  
MFC  
BBS  
RRC  
GRC  
RV3\*  
NHS  
HRL  
**LN**  
Hand  
Chuk  
MecHnd/Chuk  
ShkAbs  
FJ  
FK  
SpdContr  
Ending

## Series includes display Inspection is simple and easy

Display added to analog output.  
By the addition of display, inspection results are processed directly and digitally displayed, thus eliminating the hassles of post-processing.

## Simplifying conventionally difficult intermediate search (hand)

Since the sensor output is proportional to the actuator operation, workpiece intermediate gripping can be detected. A variety of workpiece transport needs are met, such as sorting mixed workpieces, detecting differently shaped workpieces and abnormal gripping detection.

## By key operation adjustment is easy

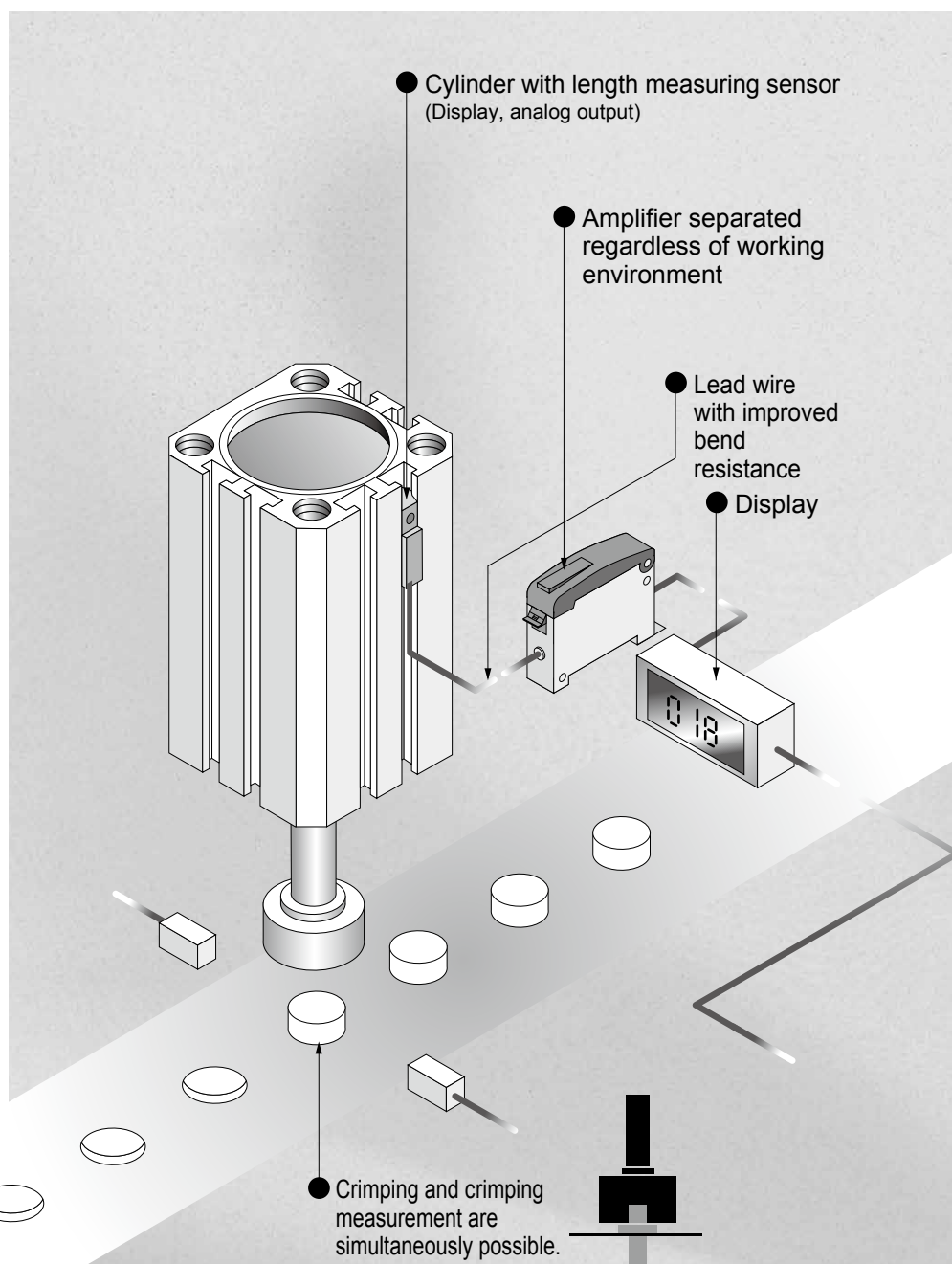
The switch operation point and operating range are easily adjusted with key operation on the display.

## Models and bore sizes have increased A wide range of choices according to the application

Mounted actuator has models compatible with super increased compact cylinder SSD series, cross roller parallel hand BHA/BHG series and highly rigid centering hand BHE series and can support a wider range of applications.

## [Length measuring sensor]

Named as a portmanteau of the terms linear (meaning straight line) and norm (meaning reference), a newly developed special magnetic sensor (PAT.P) that can obtain a nearly linear output for the travel distance of the piston with magnet. Intermediate detection and length measurement functions never achieved by conventional cylinder switches can be added to the actuator.



**Eliminates the inspection process.**

# LINEAR NORM

A newly developed length measuring sensor is installed onto the small cylinder and hand component. This is a next-dimension pneumatic component that enables workpiece operation (actuator function) and detection/inspection (defective parts check, simple length measurement) at the same time.

## Actuator system with length measuring sensor (LN)

### Linear system

#### Cylinder with LN

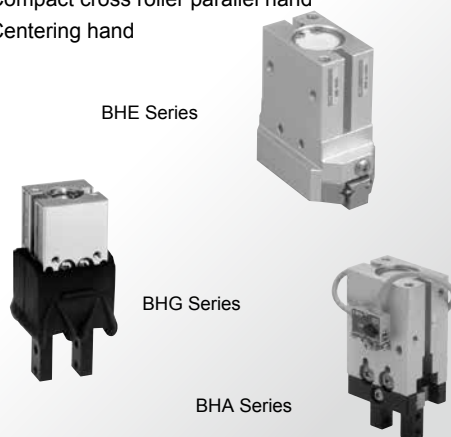
Cylinder  
Super compact cylinder



### Gripping system

#### Hand with LN

Applicable hand  
Compact cross roller parallel hand  
Centering hand

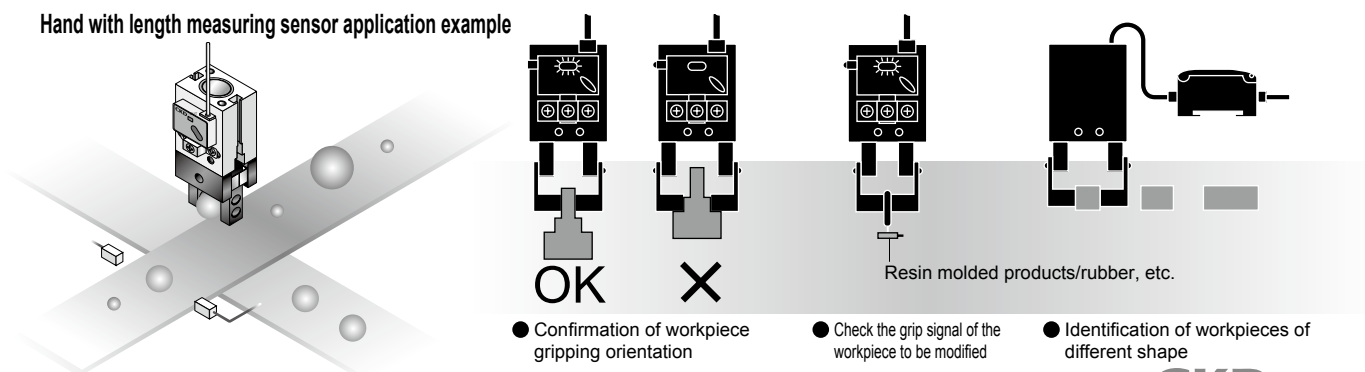


Output	Analog output	Switch/analog double output display	Analog output	Switch/analog double output display	Switch output
	1 to 5 V voltage output at an arbitrary 8 mm within the stroke	1 to 5 V voltage and switch output at an arbitrary 10 mm within the stroke	1 to 5 V voltage output at double finger full stroke	1 to 5 V voltage and switch output at double finger full stroke	ON-OFF output at double finger full stroke
Amplifier separated	●	●	●	●	●
Amplifier mounting	—	—	—	—	●
Bore size (mm)	<div> <div>ø12</div> <div>ø16</div> <div>ø20</div> <div>ø32</div> <div>ø50</div> </div>		<div> <div>ø20 or equiv.</div> <div>ø25 or equiv.</div> </div>	<div> <div>ø20 or equiv.</div> <div>ø25 or equiv.</div> </div>	<div> <div>ø12</div> <div>ø16</div> <div>ø20</div> <div>ø50</div> </div> <div> <div>or equiv.</div> <div>or equiv.</div> <div>or equiv.</div> </div>
Stroke length (mm)	20, 30, 50		—		

### Display



#### Hand with length measuring sensor application example



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USC
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JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
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