High Resolution Linear Gauge Sensor

HS-3412/3425

High Resolution Digital Gauge Counter

HG-4370



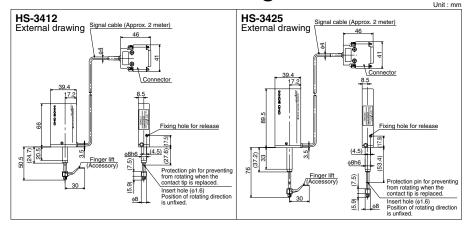
- Best suitable as a high precise positioning detector because of high accuracy $(\pm 0.5 \mu m)$ and high resolution $(\pm 0.05 \mu m)$
- Proof structure against dust (Protection class: IP50 of environmental resistance)
- Large size LEDs (Character height: 14mm) as displaying device are used for easy data reading.
- Various function of offset/peak hold (MAX., MIN., RANGE)/multiplying and selection of resolution (0.05µm/0.1µm/0.5µm)



HS-3412/3425 High Resolution Linear Gauge Sensor

	HS-3412	HS-3425
Measuring range	12 mm	25 mm
Resolution	0.05 μm	
Displaying accuracy (at 20°C)	±0.5 μm	
Measurement force (at downward)	0.0	6N
Protection class	IP	50
Stem Diameter	φ8 h	6 mm
Max. spindle speed*	0.2	m/s
Power supply	5D	VC
Consumption current	20 m <i>A</i>	A Max.
Operating temperature	0 to	40°C
Cable length	Approx. 2 meter	
Weight	Approx. 200g	Approx. 220g
Accessories	Finger lift, Pin to repl	ace the contact tip
	Spindle protection	n cap

t It is maximum spindle speed when it is combined with exclusive counter of



HG-4370 High Resolution Digital Gauge Counter

■ Suitable sensor: Model HS-3412/3425

2-Phase difference signal, Sine waveform

Displaying section

MAIN	Displaying device 7-segment LED (Red color)	
	Character height 14 mm	
SUB	Displaying device LCD module	
	No. of displayed characters 16-character x 2 lines	
STATUS	Displaying the comparator result	
	UPPER (Red), OK (Green), LOWER (Red)	

■ Function

Selectable of resolution	Switchover at 0.05µm, 0.1µm, 0.5µm
Multiplying	Setting range : x 0.000001 to 9.99999
Offset	Measurement range : ±9999999
Peak hold	MAX., Min., RANGE (MAXMIN.)
Comparator	LO : LOWER set value ≥ Measurement value
	OK : LOWER set value < Measurement value
	< UPPER set value
	UP : UPPER set value ≤ Measurement value
	Signal output by photo coupler
	Max. capacity : DC30 V, 40mA
	Renewal time : Less than 30 ms

■ Control by external signal

Specification	Voltage input : Hi level: +4 to +5.25 V
of input signal	Lo level: 0 to +1 V
	Non-contact input: Open-circuit voltage; 5.25V Max.
	Short-circuit current ; 1mA Max
	Input signal logic: Negative logic (Lo level or contact-close)
	Type of signal: Reset, Hold, Comparator, Peak hold

■ RS-232C Interface

For data printing by DPU-414 exclusive printer and data communication with personal computer Based on the EIA-RS-232C Baud rate | 2400/4800/9600 bps

■ General Specification

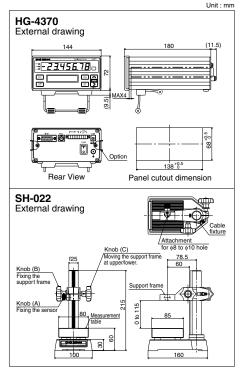
Consumption current	1A Max. (at 9VDC)
Operating temperature	0 to 40°C
Outer dimensions	144(W) x 72(H) x 180(D) mm
Weight	Approx. 1.5 kg

Accessories

Exclusive AC power adaptor	1 pc.
Stand foot	1 set
Rubber foot	1 set
Socket for terminal	1 pc. (10-pin)

Options

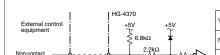
SH-022	Gauge stand
DPU-414	Exclusive digital printer (Signal cable to connect
	HG-4370 is provided as standard accessory.)
AX-5022	RS-232C Cable
AA-3301	Panel mount fixture
AA-813	Mechanical release
AA-916	Air release



■ External signal input

Recommended interface

The following circuit is recommended as the interface for the external signal input of RESET, HOLD, COMPARATOR, PEAK HOLD.

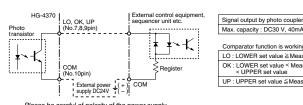


Voltage input	Hi level : +4 to +5.25 V
	Lo level : 0 to +1 V
Non-contact input	Open-circuit voltage : 5.25V Max
	Short-circuit current : 1mA Max
Input signal logic	Negative logic (Lo level or contact-close)

■ Connection to sequencer

Recommended interface

The following circuit is recommended as the interface for the external signal input of COMPARATOR.



Max. capacity : DC30 V, 40mA Comparator function is working as following LO : LOWER set value ≧ Measurement value

UP : UPPER set value ≦Measurement value

Please be careful of polarity of the power supply

*Outer appearance and specifications are subject to change without prior notice.

СОМ

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