High Resolution Linear Gauge Sensor HS-3412/3425 High Resolution Digital Gauge Counter HG-4370

**Discontinued** (Reference only)



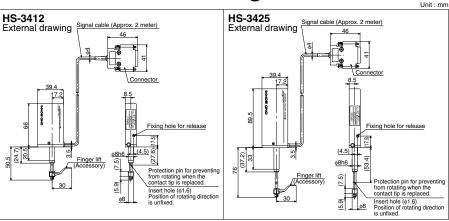
- Best suitable as a high precise positioning detector because of high accuracy  $(\pm 0.5 \mu m)$  and high resolution  $(\pm 0.05 \mu m)$
- Proof structure against dust (Protection class: IP50 of environmental resistance)
- Large size LEDs (Character height: 14mm) as displaying device are used for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

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# 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)	0.6N	
Protection class	IP50	
Stem Diameter	φ8 h 6 mm	
Max. spindle speed*	0.2 m/s	
Power supply	5DVC	
Consumption current	20 mA Max.	
Operating temperature	0 to 40°C	
Cable length	Approx. 2 meter	
Weight	Approx. 200g	Approx. 220g
Accessories	Finger lift, Pin to replace the contact tip	
	Spindle protection	n cap

\* It is maximum spindle speed when it is combined with exclusive counter of model HG-4370.



# 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

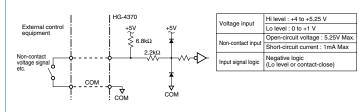
- i unction	
Selectable of resolution	Switchover at 0.05µm, 0.1µm, 0.5µm
Multiplying	Setting range : x 0.000001 to 9.99999
Offset	Measurement range : ±99999999
Peak hold	MAX., Min., RANGE (MAX.–MIN.)
Comparator	LO : LOWER set value ≥ Measurement value
	OK : LOWER set value < Measurement value
	< UPPER 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

### External signal input

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



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

# **ONO SOKKI**

#### U.S.A. & CANADA

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### 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

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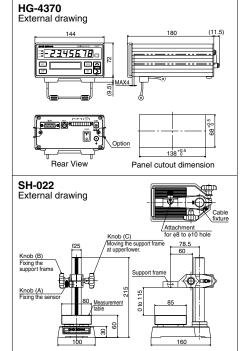
Consumption current	1A Max. (at 9VDC)
Operating temperature	0 to 40°C
Outer dimensions	144(W) x 72(H) x 180(D) mm
Weight	Approx. 1.5 kg

#### Accessories

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

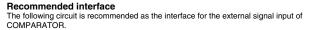
### Options

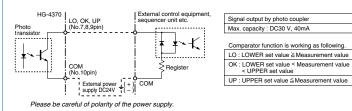
- option	
SH-022	Gauge stand
DPU-414	Exclusive digital printer (Signal cable to connect
	HG-4370 is provided as standard accessory.)
AX-5022	RS-232C Cable
AA-3301	Panel mount fixture
AA-813	Mechanical release
AA-916	Air release



Unit : mm

#### Connection to sequencer





URL: http://www.onosokki.co.jp/English/english.htm

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