



Wellington Industries International Magnetostrictive Position Sensors & Level Gauges

WELLINGTON

MAGNETOSTRICTIVE



POSITION SENSORS



&

LEVEL GAUGES



[website:www.wiillc.com](http://www.wiillc.com)

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Wellington Industries International, LLC



General Ordering Code

	1	2	3	4	5	6	7	8	9	10	11
1	Series code: CI43-6										
2	Number of position magnets s: single magnet d: dual magnet										
3	Operating temperature: T1: -40...+85 T2: -25...+70 T3: -10...+65 T4: -0...+70										
4	Type of stick P: stick F: flexible										
5	Stick material 1: 316SS 2: 1Cr18Ni9Ti 3: 0Cr18Ni9, 316SS X: customize										
6	Output A: 4...20mA B: 0...5V C: 0...10V D: 20...4mA E: 5...0V F: 10...0V G: Others (RS-485 or CAN)										
7	Mounting thread 1: M18 x 1.5 2: M20 x 1.5 X: customize										
8	Connection 0: cable outlet 1: mating connector (standard type only)										
9	Ex protection X: standard (without Ex. Protection) D: ExdIIBT5 I: ExialIBT5										
10	Measurement range 50~5000mm (can be customized)										
11	Order type S: standard order X: specially production is required										





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Magnetostrictive Position Sensors Specifications

Specifications

Measurement Range (mm):	25~5000mm
Outputs:	Current: 4...20mA, 20...4mA Voltage: 0...5V, 5...0V, 0...10V RS-485. CAN
Operating Temperature:	-40...+85 ≤20mV
Thermal Coefficient:	50ppm/
Non-linearity:	±0.05% FS ≤150μm for range ≤300mm
Repeatability:	±0.002% FS
Resolution:	±0.002% FS
Update time:	0.2~5ms depending on measurement range
Housing Material:	1Cr18Ni9Ti, 0Cr18Ni9, 316SS (or customize)
Operating Pressure:	40MPa
Mounting:	Thread M18 x 1.5 Thread M20 x 1.5
Connection:	1. Cable outlet 2. Mating connector
Power Supply:	24VDC ±10%
Current Consumption:	≤50mA
Protection Class:	IP67

ALL PRODUCTS IN THIS SERIES CAN BE MADE TO YOUR SPECIFICATIONS



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General Ordering Code

	1	2	3	4	5	6	7	8	9	10	11
1	Series code: DFL										
2	Number of float/s 1: single float 2: dual float 3: trinary float										
3	Type of stick F: flexible P: stick										
4	Stick material A: 1Cr18Ni9Ti B: 0Cr18Ni9Ti C: 316SS										
5	Number of temperature detector 0: none 1: one 2: two 3: three 5: five										
6	Mounting A: 3/4-16UNF-2A B: M18 x 1.5 C: M20 x 1.5 X: customize										
7	Output A: 4~20mA B: 0~5V C: 0~10V D: -5~+5 E: -10~+10 F: 4~20mA (Hart) G: RS-485 H: CAN Bus I: PWM J: customize										
8	Connection 0: cable outlet 1: mating connector (not available for Ex protection type) 2: terminal connection										
9	Ex protection X: standard D: ExdIIBT5 I: ExialIBT5										
10	Measurement range Stick design: 200~5000mm (can be customized) Flexible design: 3.5~25000mm (can be customized)										
11	Order type S: standard order X: specially production is required										



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Magnetostrictive Level Gage Specifications

Specifications:	Measurement Range (mm):	Stick: 200mm~5000mm Flexible: 3500mm~25000mm
	Non-linearity:	±0.05% FS ≤150mm for range ≤300mm
	Repeatability:	±0.002% FS
	Resolution:	±0.002% FS
	Operating Temperature:	-40~+85
	Thermal Coefficient:	0.007% FS/
	Ex Protection:	ExdIIBT5, ExialIBT5
	Protection Class:	IP67
Current Outputs:	Outputs:	4~20mA
	Operating Voltage:	8...30VDC (2 wire) 24VDC ±10% (3 wire)
	Load Resistor:	≤600Ω
Voltage outputs:	Outputs:	0~5V, 0~10V, -5~+5V, 10V~+10V
	Operating Voltage:	24VDC ±10%
	Output Load:	<100Ω
Digital outputs:	Outputs:	RS-485, Hart, CAN Bus, PWM
	Operating Voltage:	8~30VDC
	Transmission Distance:	RS-485: 600m CAN Bus: 1200m PWM: 50m
	Current Consumption:	≤50mA
	Outputs:	Current: 4~20mA, 20~4mA Voltage: 0~5V, 5~0V, 0~10V, RS-485. CAN

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