ABSOLUTE Digimatic Indicator ID-C

SERIES 543 — With Green/Red LED and Go/No-go Signal Output Function

FEATURES

- With the max./min. value holding function, the signal ID-C can output the go/nogo judgment result against the peak values set. Substitute for the mechanical/ electrical contact, the judgment is carried out by calculating the measurement data obtained. This provides high reliability with no deterioration of the contact point and volume adjustment.
- The signal can be output to an external device such as a sequencer through the NPN open-collector.
- The go/no-go judgment result is also indicated by the green/red LED and the "<, O, >" signs on LCD.
- Employing the ABSOLUTE linear encoder, the Signal ID-C always displays the spindle Absolute Position from the origin when powered up.

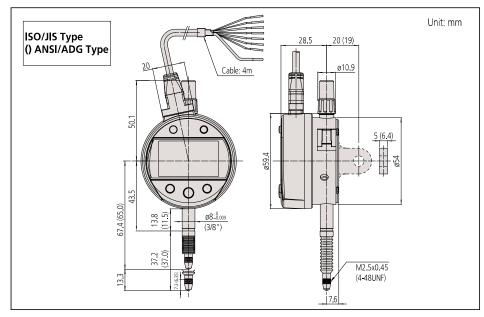
- The Signal ID-C achieves the IP54 protection level to resist dust and contaminants for safe operation in harsh machine shop environments.
- The high-speed detector measures 100 times per second.



SPECIFICATIONS

Inch/Metric	3/8" #4-48 UNI	ISO/JIS type ANSI/AGD type					
Resolution	Range	Order No. (w	/ lug, flat-back)	Model	Accuracy	Measuring force	
.00005/.0001/.0005" 0.001/0.01mm	.5" / 12.7mm	543-352	543-352B	ID-C112JEX(B)	±.00010/0.003m	m 2.5N or less	
Inch/Metric Stem ø 8mm, M2.5 x 0.45 Thread							
Resolution	Range	Order No. (w.	/ lug, flat-back)	Model	Accuracy	Measuring force	
.00005/.0001/.0005" 0.001/0.01mm	.5" / 12.7mm	543-351	543-351B	ID-C112JMX(B)	±.00010/0.003m	m 2.5N or less	
Metric Stem ø 8mm, M2. x 0.45 Thread							
Resolution	Range	Order No. (w/	'lug, flat-back)	Model	Accuracy	Measuring force	
0.001/0.01mm	12.7mm	543-350	543-350B	ID-C112JX(B)	0.003mm	2.5N or less	

DIMENSIONS







Technical Data

Refer to the list of specifications Accuracy: 0.001mm, .00005"/0.001mm Resolution:

Display: LCD

Length standard: ABSOLUTE electrostatic capacitance type linear encoder

Max. response speed: Unlimited Measuring force: 2.5N or less Power supply: DC 5-24V±10% Dust/Water protection level: IP54

Data output (-NG/OK/NG signal, NPN open collector), Remote control (hold-preset, preset-recall, zero-set), Origin-Set, Preset (up to 3 values), Zero-Set, Analog-Bar, go/nogo judgment, Max/Min/Runout value holding, Counting direction switching, Power ON/OFF, inch/mm conversion (on inch/metric models only), calibration mode

Internal calculations using the simple formula of [F(x) = Ax] are available.

Low voltage, Counting value composition error,

Overflow error, Tolerance limit setting error

Optional Accessories

902011: Spindle lifting lever* (ISO/JIS type) Spindle lifting lever* (ANSI/AGD type)
Spindle lifting cable* (Stroke: 4" / 10mm) 902794: 540774:

125317: Rubber boot

Backs (See page F-33.) Contact points (See page F-34.)

21EAA194: Connecting Cable (1m)* 21EAA190: Connecting Cable (2m)** 21EZA345A: Digimatic Power Supply Unit**

*When using the spindle lifting lever/cable, IP54 is not guaranteed. ** Used only for calibration mode and for automated testing with

Output pattern

Wire	– NG	OK	+ NG	Composition error
Orange (– NG)	Low	High	High	High
Green (OK)	High	Low	High	High
Brown (+ NG)	High	High	Low	High
LED	Red	Green	Red	Red (blinking)
LCD	<	0	>	"x xxE" indication

I/O Specifications

Wire	Signal	1/0	Description	
B l ack	– V (GND)	_	Connected to minus (-) terminal	
Red	+ V (GND)	ı	Power supply (5-24VDC)	
Orange	– NG	0	Tolerance judgment result	
Green	n OK		output: Only the terminal	
Brown	+ NG	0	corresponding to a judgment result is set to the below level.	
Yellow	ellow PRESET_RECALL ZERO		External input terminal: If the relevant terminal is set to the low	
Blue	PEAK_START	ı	level, its signal becomes true.	
Shie l d	FG	_	Connected to GND	

