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 Stem dia. 3/8" #4-48 UNF Thread

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)	±.00010/0.003mm	2.5N or less

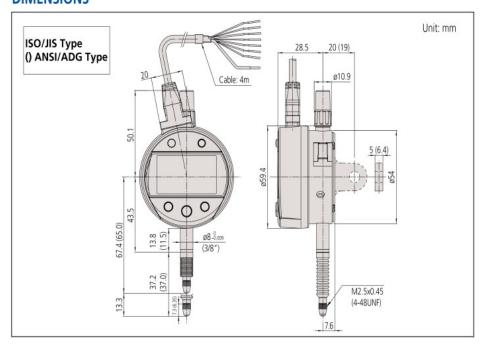
Inch/Metric	Stem ø 8mm,	M2.5 x	0.45 Thread
-------------	-------------	--------	-------------

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)	±.00010/0.003mm	2.5N or less

Desclution	D	Order No /w/lug flat				
Metric	Stem	Stem ø 8mm, M2. x 0.45 Thread				

0.001/0.01mm 12.7mm 543-350 543-350B ID-C112JX(B) 0.003mm 2.5N or less	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: Resolution: 0.001mm, .00005"/0.001mm

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, Alarm:

Overflow error, Tolerance limit setting error

Optional Accessories

902011: Spindle lifting lever* (ISO/JIS type) Spindle lifting lever* (ANSI/AGD type) 902794: Spindle lifting cable* (Stroke: .4" / 10mm) 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 an i-Checker

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
Black	– V (GND)	-	Connected to minus (-) terminal
Red	+ V (GND)	1	Power supply (5-24VDC)
Orange	– NG	0	Tolerance judgment result
Green	OK	0	output: Only the terminal
Brown	+ NG	0	corresponding to a judgment result is set to the below level.
Yellow	PRESET_RECALL ZERO	1	External input terminal: If the relevant terminal is set to the low
Blue	PEAK_START	-1	level, its signal becomes true.
Shield	FG	-	Connected to GND

