

Digimatic Indicators

SERIES 543 – ABSOLUTE Digimatic Signal Output Indicator ID-C

- With the MAX/MIN value holding function, this indicator can output the signal of a GO/±NG judgement result against the peak value set.
- Electronic processing provides high reliability and accuracy. The seven-core flying lead cable can be used by the customer to connect to external equipment as required. (See the I/O Specifications table for signal output and power supply details, and the Output/Input circuit diagrams for typical interface details.)
- The ABSOLUTE sensor restores the last origin position automatically when the indicator is turned on. It also realizes high reliability by eliminating over-speed errors.
- Provided with a 4 m cable.
- External power 12–24VDC required.



543-281B

ABSOLUTE

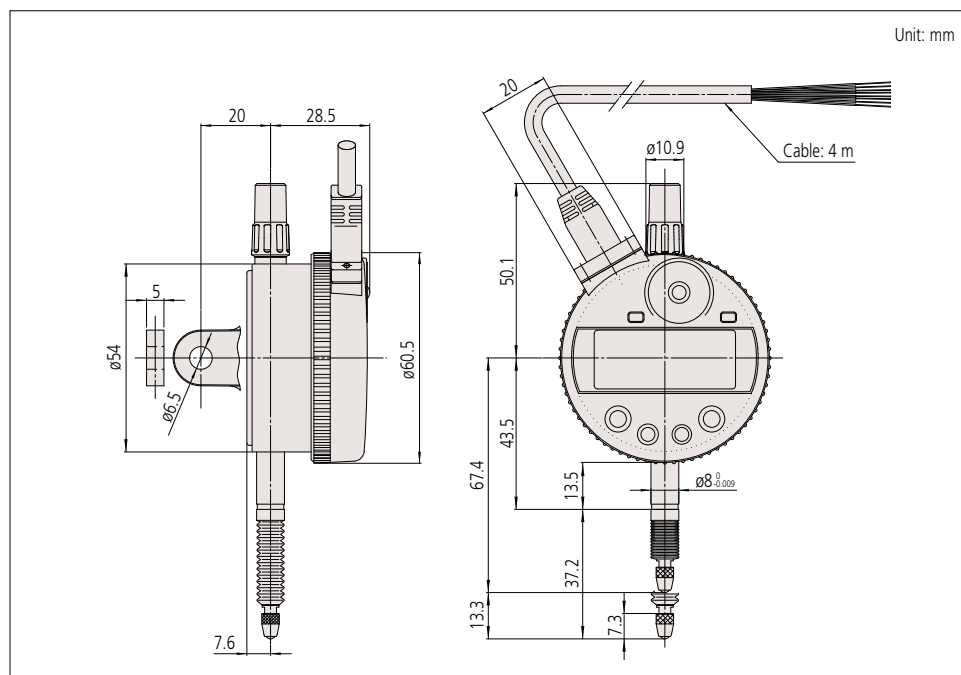
IP54

SPECIFICATIONS

Inch/Metric					
Code No.	Range	Resolution	Accuracy*	Measuring force	Price
543-281B	.5" / 12.7 mm	.00005" / 0.001 mm	.00012" / 0.003 mm	2.0 N or less	£420.00

* Quantizing error of ±1 count is excluded.

DIMENSIONS



Technical Data

Display:	6-digit LCD and sign
Scale type:	ABSOLUTE electrostatic linear encoder
Stem dia:	8 mm
Standard contact point:	901312
Dust/water protection level:	IP54

Functions

Signal output (–NG/OK/+NG, NPN open collector), Remote control (hold-reset, preset-recall, zero-set), Preset, Zero-set, GO/±NG judgement, Max/Min/Runout value holding, Counting direction switching, Power ON/OFF, inch/mm reading

Alarm: Counting value composition error, Overflow error, Tolerance limit setting error

Optional Accessories

902011:	Plunger lifting lever
	£2.80
540774:	Plunger lifting cable
	£20.50

Contact points for Mitutoyo's dial indicators (refer to pages F-37 to F-40 for details)

Interchangeable backs (refer to page F-41 for details)

Measuring stands (refer to pages F-70 to F-73 for details)

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.xx"E" indication

I/O Specifications

Wire	Signal	I/O	Description
Black	– V (GND)	—	Connected to minus (–) terminal
Red	+ V	I	Power supply (12 – 24VDC)
Orange	– NG	O	Tolerance judgement result output:
Green	OK	O	Only the terminal corresponding to a judgement result is set to the low level.
Brown	+ NG	O	
Yellow	PRESET_RECALL ZERO	I	External input terminal: If the relevant terminal is set to the low level, its signal becomes true.
Blue	HOLD_RESET	I	
Shield	FG	—	Connected to GND

Note: Measurement data cannot be output.

