

EB Counter – Single-function Type

Series 542 — Simple Display, Multi-Step Go/No-Go Judgment, BCD Output and Analog Output

- Produces 3-step/5-step, 7 types of tolerance output and limit value output independently for each of 7 channels.
- Comes with serial BCD output capability, for connection to a programmable controller or personal computer, etc.
- Dynamic measurement possible with simplified analog output.
- Employs DIN size (96×48mm) and mount-on-panel configuration to facilitate system integration.



542-092-2



542-094-2



542-093-2

SPECIFICATIONS

Order No. (counter only)	542-092-2	542-094-2	542-093-2
Package No. (counter w/AC Adapter)	64PKA134A	64PKA136A	64PKA135A
Applicable gage head	LGF, LGK, LGE, LGB (not compatible with reference point or sine wave output type models)	LGF with reference point mark (LGF-Z)	LGS, LGD, LGD-M
Number of gage inputs	1		
Quantizing error	±1 count		
Maximum input frequency	1.25MHz (2-phase square wave), response speed depends on gage specification.		Response speed depends on gage specification.
Resolution	0.01mm (±9999.99mm) / .0005" (±99.9995") 0.005mm (±9999.995mm) / .00005" (±9.99995") 0.001mm (±999.999mm) / .00005" (±9.99995") 0.0005mm (±99.9995mm) / .000005" (±.999995") 0.0001mm (±99.9999mm) / .000005" (±.999995")*		0.01mm (±9999.99mm) / .0005" (±99.9995") 0.005mm (±9999.995mm) / .00005" (±9.99995") 0.001mm (±999.999mm) / .00005" (±9.99995") 0.0005mm (±99.9995mm) / .000005" (±.999995") 0.0001mm (±99.9999 mm) / .000005" (±.999995")
Display	Sign plus 6 digits (Green LED)		
Tolerance judgment display	LED display (3 steps: Amber, Green, Red / 5 steps: Amber, Amber flashing, Green, Red flashing, Red)		
Input/output	Tolerance judgment output	L1 to L5, open-collector	
	Control output	Normal operation signal (NOM), open-collector	
	Control input	Presetting, display hold, peak value clear, tolerance judgment BANK switch, open-collector or no-voltage contact signal (with/without contact point)	
Interface	Serial BCD	Bit serial format, open-collector	
	Analog output	2.5V+Counting value Voltage resolution (25mV/2.5mV): Full-scale 0 to 5V	
	Digimatic input/output	<ul style="list-style-type: none"> • Connecting to the external switch box (No.02ADF180) makes it easy to enter tolerance limits and preset values. Note: This function is not available when the gage is connected to DP-1VR, Digimatic Mini-Processor. • Can be connected to Digimatic peripherals that have Data (poll) button • Number of tolerance steps can be expanded by assembling EB-D counters. 	
Rating	Power supply voltage	12 - 24V DC	
	Power consumption	6W or less (50mA max.) Ensure at least 1A is available per unit.	
Operating temperature range	0 to 40°C (RH 20 to 80%, no condensation) / -10 to 50°C (RH 20 to 80%, no condensation)		
External dimensions	96(W)×48(H)×156(D)mm		
Applicable input	Differential square-wave	Differential square-wave with origin point mark	Digimatic code (SPC)
Mass	Approx. 400g	Approx. 400g	Approx. 400g

* range is limited when using 0.0001 mm gages

Function

- Preset
- Tolerance judgment output (3/5-step, 7 types)
- Limit value output (2 types independently for each of the 7 channels)
- Peak (max., min., runout) measurement
- Diverse data output (Serial BCD, Simplified analog, Digimatic)

Optional Accessories

- I/O output connector (with cover): No.02ADB440
- AC adapter: No.357651 *
- AC cable (USA): 02ZAA010*
- Terminal connecting cable: No.02ADD930*
- * Included in package Order No. The tolerance values or preset values can be easily input. No.02ADF180 (with 2m cable)



DIMENSIONS

