

# EG Counter – Single-function Type

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

### Function

- Preset
- Direction switch
- Tolerance judgment (3/5-step, 3 kinds)
- Peak (max., min., runout) measurement
- Constant number
- Smoothing
- Error display/output
- Key protection

### Optional Accessories

- I/O output connector (with cover): **No. 357651**
- AC adapter: **No.357651 \***
- AC cable (USA): **02ZAA010\***
- Terminal connecting cable: **No.02ADD930\***
- \* Included in package Order No.

- 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.
- Employs DIN size (96x48mm) and mount-on-panel configuration to facilitate system integration.



542-015



542-017



542-016

### SPECIFICATIONS

Order No. (counter only)	542-015	542-017	542-016
Package No. (counter w/AC adapter)	64PKA131A	64PKA133A	64PKA132A
Applicable gage head	LGE, LGF, LGK, LGB, LGM, LG, LGH (Not compatible with LGH110, reference point or sine wave models)	LGF with reference point mark (LGF-Z)	LGD, LGS, ID, SD
Number of gage inputs	1		
Quantizing error	±1 count		
Maximum input frequency	1.25MHz, response speed depends on gage specification.		
Resolution	0.01mm (±9999.99mm) / .0005" (±99.9995") / .001" (±999.999") 0.005mm (±9999.995mm) / .00005" (±9.99995") / .0001" (±99.999") 0.001mm (±999.999mm) / .00005" (±9.99995") / .0001" (±99.999") 0.0005mm (±99.9995mm) / .000005" (±.999995") / .00001" (±9.99999") 0.0001mm (±99.9999mm) / .000005" (±.999995") / .00001" (±9.99999")*		0.01mm (±9999.99mm) / .0005" (±99.9995") / .001" (±999.999") (±99.9995") / .001" (±999.999") 0.001mm (±999.999mm) / .00005" (±9.99995") / .0001" (±99.999") .00005" (±9.99995") / .0001" (±99.999") [Automatic setting by gage]
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)		
Tolerance judgment output	L1 to L5 (Open-collector / Switchover between L1 to L5 and BCD output with parameter)		
Control output	Normal operation signal (NOM): open-collector		
BCD output	Open-collector / Switchover between 6-digit (positive/negative-true logic) and tolerance judgment output with parameter		
Control input	Presetting, display hold, peak value clear, tolerance judgment BANK switch		
Rating	Power supply voltage	12 - 24V DC	
	Power consumption	6W or less (500mA max.) Ensure at least 1A is available per unit.	
Operating temperature range	0 to 40°C (RH 20 to 80%, no condensation)		
Storage temperature range	-10 to 50°C (RH 20 to 80%, no condensation)		
External dimensions	96 (W) x 48 (H) x 156 (D) mm		
Applicable input	Differential square-wave	Differential square-wave with origin point mark	Digimatic code (SPC)
Number of gage inputs	1		
Mass	Approx. 400g		

\* range is limited when using 0.0001 mm gages

### DIMENSIONS

