## **Linear Gages**

Ideal for integration into harsh environments such as automation applications

## EJ-102N/Interface Unit CC-Link/USB **SERIES 542 — Linear Gage Counter**

- A small, high-speed, space-saving counter for linear gage suitable for in-line and inlaboratory use. It brings visibility into the production site, improves productivity, and enables data accumulation.
- Up to 8 compact counters (**EJ** counters) can be linked providing the capacity to connect up to 16 gages.
- On a DIN rail, each unit can be connected directly without using cables, so it takes up minimal space. All linked units and gages can be driven by a single power source.

• Data can be output through an industrial interface (CC-Link) by linking a compact counter (**EJ** counter) with an interface unit. Constant data monitoring and positional management are performed. A USB interface is also provided for easy connection with a

• Enables sum difference operations between 2 gages connected to the same counter.

## **Optional Accessories**

- AC adapter: **357651**  AC cord: **02ZAA000**\*1
- DC connector with bar terminal: 21HZA209\*1
- \*1 Required when using AC adapter.









## **SPECIFICATIONS**

Order No.			542-080		542-081
Unit	Unit		mm		inch/mm
Resolution		0.0	0.005, 0.001, 0.0005, 0.0001 (mm)		0.0002, 0.00005, 0.00002, 0.000005 (inch)/ 0.005, 0.001, 0.0005, 0.0001 (mm)
Number of linear gage connection ports		2			
Supported gage signal		Differential square wave, differential square wave with reference point mark			
Maximum input frequency		5 MHz			
User Interface	Display	Negative sign + 8 digits and indicator (1 gage value displayed, manually switchable)			
External I/O	Number of I/O ports	Input: 4 ports (Ch switch, peak clear, data hold, preset) Output: 4 ports (Err/ALLGO, Tolerance judgment)			
	Compatible communication standards	CC-Link, USB (Supported with optional interface units)			
Max. number of linked units		EJ Counter 8 units + 1 (optional) interface unit (Max. number of linear gage connections: 16)			
	Input voltage	10 V to 27 V DC			
Power supply	Power consumption	1 unit only: 3 W or less (Includes 2 linear gages) Max. number of links: 30 W or less (Interface unit and 16 linear gages included)			
Operating temperature (humidity) ranges		0 to 50 °C (RH 20 to 80%, non-condensing)			
Storage temperature (humidity) ranges		-10 to 60 °C (RH 20 to 80%, non-condensing)			
Mass		Approx. 120 g			
Connectable li	inear gage Series		Conversion cable (optional)		

Connectable linear gage Series	Conversion cable (optional)		
LG100	Not necessary		
LGF-Z	Necessary (21HZA194)		
LGF/LGK/LGB/LG	Necessary (21HZA193)		

Order No.		21HZA186		
Model		Interface unit CC-Link		
Applicable interface		USB 2.0 Full Speed		
		CC-Link Ver. 1.10		
		CC-Link Ver. 2.00		
User Interface	Display	POWER (green), RUN (green), ERROR (red), EJ-CONNECT (green)		
	Switch	Rotary switch×3 (Exchange number settings×2, communication speed settings×1)		
Functions		Common protocols for USB and CC-Link, Readout of current value*2, Current value hold (software hold), Parameter setting on EJ counter, Tolerance judgment value settings, Preset value settings, preset/zero-set clear, peak clear, error clear *2 Only Ver. 2.00 is supported with CC-Link.		
Power supply		Power is supplied from <b>542-080/542-081</b> (Cannot be charged via USB)		
Operating temperature (humidity) ranges		0 to 50 °C (RH 20 to 80%, non-condensing)		
Storage temperature (humidity) ranges		-10 to 60 °C (RH 20 to 80%, non-condensing)		

Order No.	21HZA149		
Model	Interface unit USB		
Applicable interface	USB 2.0 Full Speed		
User Interface	POWER (green)		
Functions	Readout of current value, Current value hold (software hold), Parameter setting on EJ counter, Tolerance judgment value settings, Preset value settings, preset/ zero-set clear, peak clear, error clear		
Power supply	Power is supplied from <b>542-080/542-081</b> (Cannot be charged via USB)		
Operating temperature (humidity) ranges	0 to 50 °C (RH 20 to 80%, non-condensing)		
Storage temperature (humidity) ranges	-10 to 60 °C (RH 20 to 80%, non-condensing)		

