

DIGITAL LINEAR GAGUES



DUSTPROOF
WATERPROOF

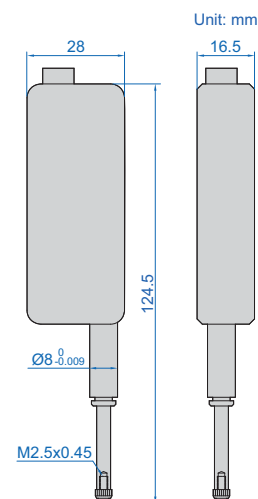
ABSOLUTE ENCODER, THE ORIGINAL
DATA REMAINS AFTER POWER OFF



7130-10



7130-10L



- Scale type: optical grating
- Absolute encoder, the original data remains after power off
- Digital signal output, amplifier is not required
- Measuring force: $\leq 1.5N$
- Dust/waterproof: IP43/IP66
- Baud rate: 9600 (can be customized)
- Cable length: 3m (can be customized)
- Optional accessory: software of linear gauge (code: **7130-SOFTWARE**, 8 probes can be connected at the same time, need to purchase the corresponding hubs)




Dust/waterproof IP43, resolution 0.1 μ m

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-10	0-12.5mm	0.5 μ m	1 μ m	horizontal	RS232, TTL level	
7130-10L	0-12.5mm	0.5 μ m	1 μ m	vertical	RS232, TTL level	
7130-11	0-12.5mm	0.5 μ m	1 μ m	horizontal	RS232, 232 level	
7130-11L	0-12.5mm	0.5 μ m	1 μ m	vertical	RS232, 232 level	
7130-12	0-12.5mm	0.5 μ m	1 μ m	horizontal	RS485 (VCC+5~12V)	
7130-12L	0-12.5mm	0.5 μ m	1 μ m	vertical	RS485 (VCC+5~12V)	
7130-13	0-12.5mm	0.5 μ m	1 μ m	horizontal	RS232, TTL level	
7130-13L	0-12.5mm	0.5 μ m	1 μ m	vertical	RS232, TTL level	
7130-14	0-12.5mm	0.5 μ m	1 μ m	horizontal	RS232, 232 level	
7130-14L	0-12.5mm	0.5 μ m	1 μ m	vertical	RS232, 232 level	




Dust/waterproof IP43, resolution 0.5 μ m

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-20	0-12.5mm	1.5 μ m	3 μ m	horizontal	RS232, TTL level	
7130-20L	0-12.5mm	1.5 μ m	3 μ m	vertical	RS232, TTL level	
7130-21	0-12.5mm	1.5 μ m	3 μ m	horizontal	RS232, 232 level	
7130-21L	0-12.5mm	1.5 μ m	3 μ m	vertical	RS232, 232 level	
7130-22	0-12.5mm	1.5 μ m	3 μ m	horizontal	RS485 (VCC+5~12V)	
7130-22L	0-12.5mm	1.5 μ m	3 μ m	vertical	RS485 (VCC+5~12V)	
7130-23	0-12.5mm	1.5 μ m	3 μ m	horizontal	RS232, TTL level	
7130-23L	0-12.5mm	1.5 μ m	3 μ m	vertical	RS232, TTL level	
7130-24	0-12.5mm	1.5 μ m	3 μ m	horizontal	RS232, 232 level	
7130-24L	0-12.5mm	1.5 μ m	3 μ m	vertical	RS232, 232 level	

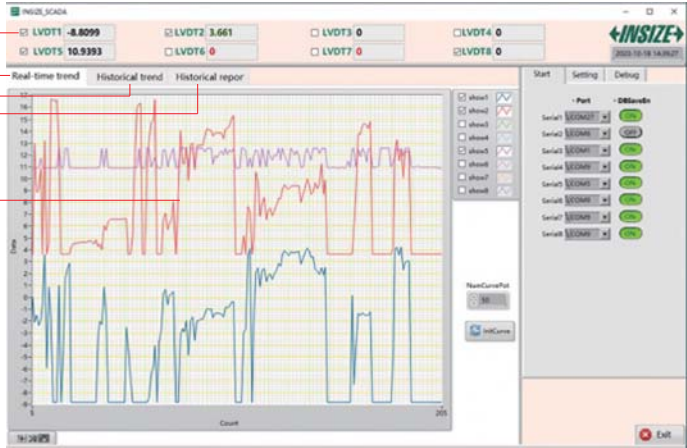
Dust/waterproof IP66, resolution 0.1μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-30	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7130-30L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7130-31	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7130-31L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	
7130-32	0-12.5mm	0.5μm	1μm	horizontal	RS485 (VCC+5~12V)	
7130-32L	0-12.5mm	0.5μm	1μm	vertical	RS485 (VCC+5~12V)	
7130-33	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7130-33L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7130-34	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7130-34L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.5μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-40	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7130-40L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7130-41	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7130-41L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	
7130-42	0-12.5mm	1.5μm	3μm	horizontal	RS485 (VCC+5~12V)	
7130-42L	0-12.5mm	1.5μm	3μm	vertical	RS485 (VCC+5~12V)	
7130-43	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7130-43L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7130-44	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7130-44L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	

Software of linear gage (optional)



The screenshot shows the INSIZE software interface. At the top, there are real-time data values for LVDT1 (-8.8099), LVDT2 (3.661), LVDT3 (0), LVDT4 (0), LVDT5 (10.9393), LVDT6 (0), LVDT7 (0), and LVDT8 (0). Below this is a control panel with 'Start', 'Setting', and 'Debug' buttons. The main area features a 'data trend chart' with 'Real-time trend', 'Historical trend', and 'Historical report' tabs. The chart displays multiple data series with red and green lines indicating tolerance status. On the right, there is a 'Part' list with 'DIRMando' and several 'Serial' ports, each with a status indicator (green or red).

real time data

real time trend view and export historical trend view and export historical data

data trend chart

The software can set tolerance and make real-time judgment (red when out of tolerance, green when within tolerance), set zero, data collection interval time, color, type, and line width of trend lines, can view and export data to Excel report or BMP image