

SC-LD200

Laser Positioning
Sensor



- High Absolute Accuracy
- High Precision
- Easy to Setup
- Minimize Size in Shaft
- Ambient Light Immunity
- CAN, RS485 & Customization

PRODUCT INTRODUCTION

-  **Basic Principle**
- Automate Matrix's SC-LD200 is the high-precision positioning solution based on the dToF technology.
-  **Technical Specifications**
- Up to 20m, with 100Hz refresh rate & 1mm accuracy. The product meets the CE Standard.
-  **Application Scenarios**
- Elevator and lifting applications.

SUITABLE MODELS

Product Model	Measurement Range(m)	Repeatability (mm)	Communication Interface	Operating Temperature
SC-LD212 20	20m/25m	±1mm	RS485 + CANopen	-20°C to 70°C

TECHNICAL SPECIFICATIONS

Parameter		
Distance Measurement Parameters	Product Model	SC-LD212 20
	Measurement Range	20m/25m
	Repeatability	±1mm
	Measuring frequency	100Hz
	Type. light spot size (distance)	≤30mm
	Response time	Static: 25ms; Dynamic: 5ms
	Resolution	0.1mm/1mm Adjustable
	Temperature drift	≤0.1mm/K
	Moving speed	≤10m/s
Optical Parameters	Setup time	6s
	Emitter	Laser, Infrared
Electrical Parameters	Wavelength	905nm + 650nm
	Operating voltage	18V - 30V DC
RS485 Interface Parameters	Operating current	≤120mA/24V DC
	Baud rate (bit/s)	9600/19200/38400/57600/115200
	Data bits	8
	Parity bit	None
CANopen Interface Parameters	Stop bits	1
	Baud rate (kbps)	20/50/57.143/100/125/250/500/1000
Mechanical Parameters	Dimensions	104.5 x 83 x 70mm
	Housing material	Aluminum alloy
	Lens	Glass
	Weight	Approximately 600g
	IP rating	IP55
Environmental Parameters	Ambient light immunity	Sunlight: 100kLux
	Operating Temperature	-20°C to 70°C
	Storage Temperature	-40°C to 85°C