

RK400-14 Laser Snow Depth Sensor



RK400-14 has a large measuring range and high accuracy, with a maximum accuracy of 1mm. It also has super anti-interference ability and is widely used in various industrial control such as steel industry, metallurgical industry, automobile industry, printing industry, food industry, etc., and various field monitoring and inspection sites. The principle of the laser snow depth sensor is the optical triangulation method, and the semiconductor laser is focused on the measured object by the lens. The reflected light is collected by the lens and projected onto the CMOS array; the signal processor calculates the position of the light spot on the array through the trigonometric function to obtain the distance to the object.

FEATURES

- Easy installation
- High accuracy, good stability
- Maintenance-free
- Compact size for easy use
- Large range



APPLICATIONS

- Printing industry
- Metallurgical Industry
- Food industry
- Various industrial controls
- Various types of field monitoring and inspection sites.

SPECIFICATIONS

Item	Specification
Range①	0-15m
Laser characteristics	Red laser diode
Wavelength	620nm~650nm
Laser class	Level 2
Spot type	Point
Spot size	Spot light spot 5mm@10m Line spot 3mm*150mm@10m
Protection level	IP68
Resolution	1mm
Accuracy	±1cm
Power consumption	<0.8W (without heating)
Supply	12VDC
Output	SDI-12
Operating temperature	-40~+50°C
Heating	Automatic, it can be turned on or off through commands
Installation angle	Automatically calculate 0° and installation angle, <30° is allowed

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Mounting	Include accessories of mounting to mast vertical of 4 inches of diameter
Main material	White steel coated or sprayed
Weight(unpacked)	2.5kg

①The sensor has a 10cm measurement blind spot

PARAMETER SELECTION TABLE

Remark	Series	Type	Output	Supply	Cable Length	
RK						
	400					
		14				
			A			RS485
			B			RS232
			C			4-20mA
			D			0-5V
			E			Other
				A		9-18VDC
				X		Other
					3000	Units:mm(typ.)
					...	Units:mm

Example: RK400-14AA4000 Output:RS485, Supply:9-18VDC, Cable Length:3m.

Note: The cable conductors are identifiable by different colors.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 1.3

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