

Siman



SDP-20 Series Laser Rangefinder

The SDP-20 Series is a direct Time of Flight (dToF) laser ranging sensor developed by Siman Sensing Technology Co., Ltd. Under harsh conditions such as strong ambient light interference or extremely low reflectivity of the target object, its excellent signal processing capability still ensures outstanding reliability.

The SDP-20 Series sensor supports RS485 communication, 4~20mA output, and dual-channel I/O outputs. Equipped with an OLED display, the device shows the measured distance in real time and allows parameter configuration via buttons. This product is widely used in fields such as positioning, collision prevention, and obstacle avoidance of industrial equipment..For more product details, visit: www.siman.asia

warn

➤ Main measurement laser (905nm): Class 1 laser product. Safe under normal operating conditions.

➤ Indicative laser (650nm): Class 2. Do not look directly at the beam or use optical instruments to observe.

➤ This product has no explosion-proof structure, and it is forbidden to use in flammable and explosive environments.

➤ Do not remove this product.

➤ Be sure to turn off the power before operating. Do not connect wires while powered on!

1. Avoid use in dust/steam or corrosive gas environment;

2. Where corrosive gases are generated;

➤ Do not use this product in water.

➤ When used outdoors, pay attention to adding a waterproof cover.

hookup

485+ analog

传感器

棕线 +V

蓝线 0V

黄线 RS485A

绿线 RS485B

白线 模拟量输出

红线 模拟地

黑线 大地

+ 9~35V DC

- 0V

485 设备

模拟输入设备

switching value

传感器

棕线 +V

蓝线 0V

黄线 OUT1

绿线 OUT2

黑线 大地

+ 9~35V DC

- 0V

负载

负载

Specifications

model	range	communication interface
SDP-20P	0.05...20m	PNP
SDP-20DA		RS485+4~20mA
CI	RS485 / 4~20mA / PNP	
range	0.05...20m@10% reflectivity	
repeatability precision	±2mm	
measuring frequency	100Hz	
Measure laser light source	905nm, Class 1	
Indicate laser light source	650nm, Class 2	
Outer shell material	aluminum	
working temperature	-20~50℃	
working voltage	9~35VDC	
working current	典型 mA@12V DC（指示激光关闭）	
accuracy	典型 mA@12V DC（指示激光开启）	
levels of protection	±20mm	
weight	IP65	
size	145g	
Storage temperature	44mm*44mm*69mm	
Reflectance correction	-40~85℃	

three views

侧视图

正视图

后视图

俯视图

仰视图

Unit: mm

Key settings

0.140m

长按3秒set

激光开

短按set

激光开

+/-

激光关

短按set

激光关

默认开启指示激光开关，不影响正常测距

长按3秒set

开关量 1: min 0.00m

短按set

OUT1阈值min 开关量 1: min 0.00m

短按+

开关量 1: min 0.01m

短按+, 按0.01递增 长按+, 可持续增加

短按-

开关量 1: min 50.00m

短按-, 按0.01递减 长按-, 可持续减少

OUT1阈值max 开关量 1: max 1.00m

短按set

OUT2阈值min 开关量 2: min 0.00m

短按set

OUT2阈值max 开关量 2: max 1.00m

可配置两路开关量功能

长按3秒set

模拟量 1.00m

短按set

模拟量 1.00m

+

模拟量 1.01m

短按set

模拟量 1.01m

模拟量对应量程上限, 下限固定为0m

长按3秒set

4 8 5 ID 000

短按set

4 8 5 ID 000

+

4 8 5 ID 001

短按set

4 8 5 ID 254

当前设备地址默认000

短按set

4 8 5 波特率 9600

波特率默认固定9600

contact us

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