IDEC

S3 CONNECT

USB Powered Portable Sensor Checker

SA1P

Portable Sensor Checker

Easily connects 24V DC devices at any location

IDEC CORPORATION

Compact & lightweight (95g). Ideal for on-site use

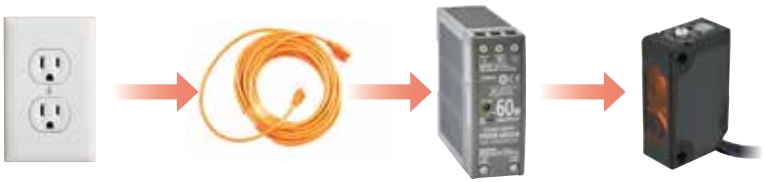
Issue

How can I test 24VDC devices on my machine?

The old way of using cell batteries or power supplies connected to outlets using extension cords are required.

Without AC power supply

With AC power supply



Have you ever had this experience?

When testing operation of sensors and indicator lights on-site, as there are no power outlets nearby, it takes a lot of time and effort to route the cords from the control panel.

Solution

USB Powered Portable Sensor Checker

SA1P

The SA1P uses an external USB battery for power

Because cell batteries are not required, cost can be reduced and used for a long period of time. The mobile battery can be fastened using a belt for making it convenient to carry around.

Connects to PCs using a USB connector (*2)

*1) Connect to a mobile battery of 5V DC, 2A ouput min.
*2) When connecting a USB connecter from a PC, load conditions differ depending on ratings. See the instruction manual for details.

Tests and continuity checks can be performed in any location

Easy device testing and continuity check for 24V DC devices without power outlets near by.

Push–in terminal allows easy wiring. Connect up to 2 devices simultaneously.

Sensor operation check

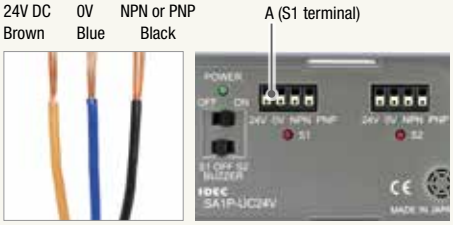
Operation check of pressure-sensitive switches such as edge switches

*1) Available Fall 2021

Operation check of illuminated buzzers

Example: Connecting 3-wire sensors

1. Insert each wire by pressing part A (white terminal).
2. Turn on the POWER switch.
3. When the output signal is received from the sensor, the signal input indicator (red) turns on. To make the buzzer sound at the same time, turn on the BUZZER.
   (Two terminal parts are available so that two sensors can be connected)



General Specifications

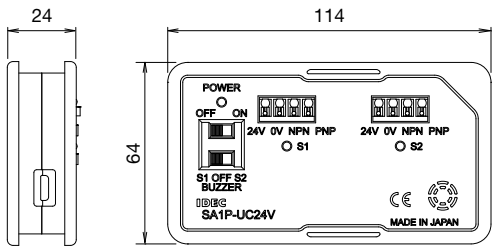
Electrical specifications	Power supply	Connectors		USB Type-C connector (USB2 0 Type-A conversion cable on main unit) *1
		USB power rating		5V DC, 2A maximum
		Input current		Max. load current: 1.8A (buzzer ON), 1.5A (buzzer OFF) No Load: 0.2A
	Sensor connection	Connectors		Terminal S1, S2 (push-in terminal)
		External output (for sensor power)		24V DC±10% 200mA max. (Total of S1 and S2)
		Signal input (connected to sensor output)	Points	2 points
			Connection*2	NPN: Connect to 24V NPN open collector output. PNP: Connect to 24V PNP open collector output.
			Input current	NPN: Buzzer output ON: 25mA (peak current 50mA)/point Buzzer output OFF: 2mA/point PNP: Buzzer output ON: 2mA/point Buzzer output OFF: 2mA/point
			Min. input time	0.5s
	Buzzer output			1 point (S1/S2/OFF selectable)
	Slide switches			POWER Switch (ON-OFF)
				Buzzer Switch (S1-OFF-S2)
	Indicator			POWER indicator (Green) Signal input indicator S1 side (Red) Signal input indicator S2 side (Red)
Environmental specifications	Operating temperature			-10 to +50°C (no freezing)
	Relative humidity			30 to 85%RH (no condensation)
	Storage temperature			-25 to +70°C (no freezing)
	EMC Resistance			IEC/EN61000-6-2, IEC/EN61000-6-4

*1) We recommend you to use the USB cable supplied with the product . If a commercially available USB cable is used, be sure to keep the cable length short in consideration of the voltage drop caused by the current flowing through the USB cable. Note that operation of commercially available USB cables are not guaranteed.

*2) Although a proximity switch, a switch or other devices with contacts can be connected, a DC 2-wire type sensor with built-in power supply cannot be connected.

Dimensions

Dimensions in mm



Part No.

Main part

Package quantity:1

Name	Part No. (Ordering No.)
SA1P	SA1P-UC24V

Attachments (included with Part No.)

Package quantity:1

Name / Shape	Descriptions
Fastening belt 	Belt to fasten the USB cable or mobile battery. Black, length: 0.3m, width: 20mm, thickness: 1mm
USB cable 	Cable used to connect the SA1P and the power supply. Connector (main unit side): USB Type C Connector (power supply side): USB Type A Length: 0.25m
Strap 	Prevents the SA1P from dropping.

Instructions

Be sure to read the instruction sheet before installation, wiring, operation, and maintenance of the product.

For details on installation, wiring, and maintenance, see the Instruction Sheet and User's Manual from the URL below.

SA1P https://product.idec.com/?product=SA1P

Product Information

Miniature Photoelectric Switches

SA2E

Acheives stable detection even at a fast response time of 0.5ms. Equipped with light ON/dark ON features, on-site switching of light ON/dark ON is possible, enabling stock reduction . Three detection distances (1000, 500, 100m) available for diffuse-reflective sensors allowing a flexible installation location.

Photoelectric Switches

SA1U

Universal voltage types operate on 24-240V AC and 12-240V DC. DC power types operate on 12-24V DC. Four sensing methods (through-beam, polarized retrorefl ective, diffuse-refl ective, and background suppression).

Magnetic Proximity Switches

DPRI

The DPRI magnetic proximity switch incorporates a sealed reed switch and four magnets inside a compact housing. This self-contained proximity switch requires no external power supply and can detect the presence of magnetic objects without contact.

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