



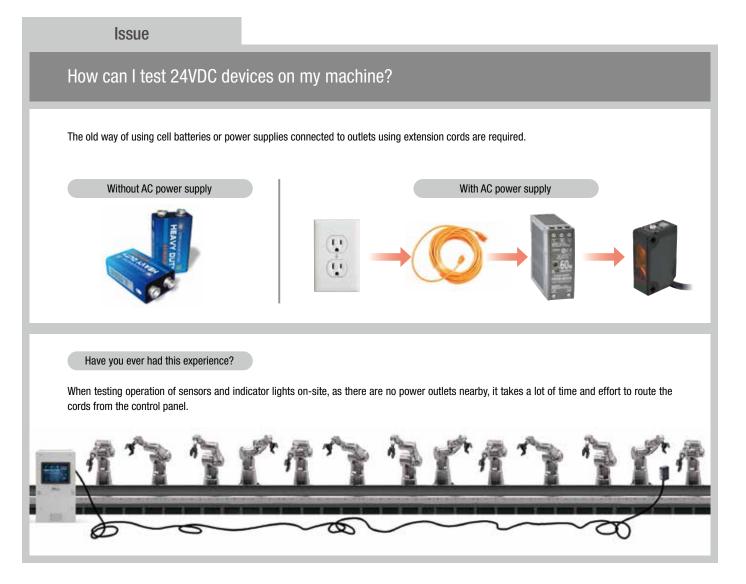
# Portable Sensor Checker

Easily connects 24V DC devices at any location

**IDEC CORPORATION** 

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





#### 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.

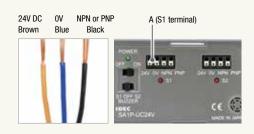






#### Example: Connecting 3-wire sensors

- 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)



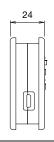
#### General Specifications

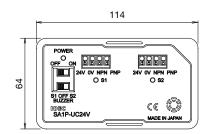
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Electrical specifications	Power supply	Connectors		USB Type-C connector (USB2 0 Type-A conversion cable on main unit) *1		
		USB power rating		5V DC, 2A maximum		
		Input current		Max. load current: 1.8A (buzzer ON), 1.5A (buzzer OFF) No Load: 0.2A		
	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 (S1-0FF-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)		
ntal ons	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
- \*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:

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

**DPRI** 



#### **Product Information**

SA<sub>2</sub>E



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 diffusereflective sensors allowing a flexible installation location.



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, diffuserefl ective, and background suppression).



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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# **IDEC CORPORATION**

**Head Office** 

6-64, Nishi-Miyahara-2-Chome, Yodogawa-ku, Osaka 532-0004, Japan

USA **IDEC Corporation** APEM GmbH Germany Singapore IDEC Izumi Asia Pte. Ltd. IDEC Asia (Thailand) Co., Ltd Thailand India Taiwan **IDEC Taiwan Corporation** 

Tel: +1-408-747-0550 opencontact@idec.com Tel: +49-40-25 30 54-0 service@eu.idec.com Tel: +65-6746-1155 info@sg.idec.com Tel: +66-2-392-9765 sales@th.idec.com IDEC Controls India Private Limited Tel: +91-80679-35328 info\_india@idec.com

Tel: +886-2-2577-6938 service@tw.idec.com

SA1U

Hong Kong China

Japan

IDEC Izumi (H.K.) Co., Ltd. IDEC (Shanghai) Corporation Beijing Branch Guangzhou Branch **IDEC Corporation** 

Tel: +852-2803-8989 Tel: +86-21-6135-1515

Tel: +86-10-6581-6131 Tel: +86-20-8362-2394 Tel: +81-6-6398-2527

info@hk idec.com idec@cn.idec.com idec@cn.idec.com idec@cn.idec.com jp\_marketing@idec.com

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