

# Sensor Checker

## CHX-SC2

FIBER  
SENSORSLASER  
SENSORSPHOTOELECTRIC  
SENSORSMICRO  
PHOTOELECTRIC  
SENSORSAREA  
SENSORSSAFETY LIGHT  
CURTAINS /  
SAFETY COMPONENTSPRESSURE /  
FLOW  
SENSORSINDUCTIVE  
PROXIMITY  
SENSORSPARTICULAR  
USE SENSORSSENSOR  
OPTIONSSIMPLE  
WIRE-SAVING  
UNITSWIRE-SAVING  
SYSTEMSMEASUREMENT  
SENSORSSTATIC  
CONTROL  
DEVICESLASER  
MARKERS

PLC

HUMAN MACHINE  
INTERFACESENERGY  
MANAGEMENT  
SOLUTIONS

FA COMPONENTS

MACHINE VISION  
SYSTEMSUV CURING  
SYSTEMSSensor Mounting  
StandSensor  
CheckerSensor  
Controller

Other Products

Related Information

■ General terms and conditions ..... F-3

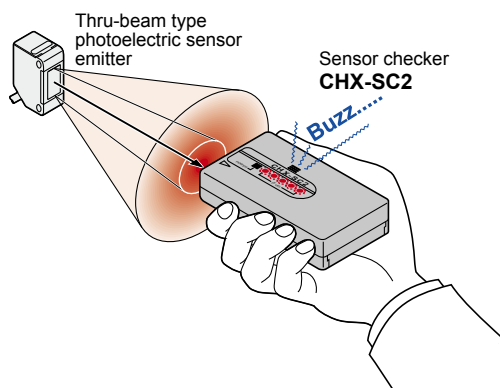
■ General precautions ..... P.1595


<https://www.ramcoi.com/itemdetail/CHX-SC2>

## Extremely useful for beam alignment of thru-beam type photoelectric sensors

### Convenient for beam alignment

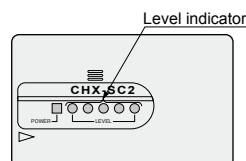
Since the optical axis of a thru-beam type photoelectric sensor can be checked, beam alignment is easy.



### Light and sound indicate optimum position

When the emitter of the thru-beam type photoelectric sensor and **CHX-SC2** face each other along a straight line and their optical axes match, the number of LEDs which light up in the level indicator, as well as, the sound tone increases.

Since the sound tone can also be heard with an earphone, the sensor checker can be used in a noisy place.



### Suitable for all sensors

This product can be used with infrared, as well as, red beam type of thru-beam type photoelectric sensors.

### Compact and light weight

Since the sensor checker has a compact size (W100 × H60 × D23 mm [W3.937 × H2.362 × D0.906 in](#)), it can be conveniently carried to the place of use. (Power supply: 9 V dry cell)

## ORDER GUIDE

Appearance	Model No.
	<b>CHX-SC2</b>

**SPECIFICATIONS**

Item	Model No.	CHX-SC2
Applicable sensor		Infrared beam type or red beam type of thru-beam type photoelectric sensor
Supply voltage		9 V [006P dry cell (Note 2)]
Power indicator		Red LED (lights up when the power is ON)
Light intensity monitor		Red LED × 5 (light up, successively, according to the incident light intensity) Audio confirmation with an earphone (frequency increases with light intensity) (Note 2)
Sensitivity adjuster		Continuously variable adjuster
Ambient temperature		0 to +40 °C +32 to +104 °F, Storage: 0 to +40 °C +32 to +104 °F
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 % RH
Material		Enclosure base: ABS, Top cover: ABS
Weight		Net weight: 95 g approx.

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.  
2) Since the 9 V dry cell and earphones are not supplied as accessory, please arrange them separately.

**PRECAUTIONS FOR PROPER USE**

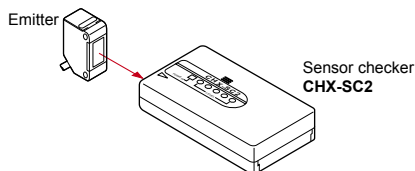
Refer to p.1595 for general precautions.



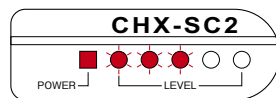
- Never use this product in a device for personnel protection.
- In case of using devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

**Method of use**

- 1 Set the power supply switch ON. At this time, the buzzer may sound even if light is not incident. However, if the sensitivity adjuster has been set to min., the buzzer will not sound.
- 2 Set the sensitivity adjuster to max.
- 3 Make the emitter and **CHX-SC2** face each other along a straight line.



- 4 When light from the emitter is incident, the level indicator LEDs light up and the sound tone increase. The buzzer starts sounding when 3 or 4 LEDs of the level indicator light up.



- 5 By turning the sensitivity adjuster, adjust the sensitivity such that about 3 LEDs of the level indicator light up.
- 6 Move **CHX-SC2** up, down, right and left to determine the optimum position where the maximum No. of LEDs of the level indicator light up and the buzzer sound tone is the highest. At this time, if the sensitivity has been set too high, although a part of the level indicator may light up even in the beam interrupted condition, it does not indicate any abnormality.
- 7 If the sensor checker is being used in a noisy environment and it is difficult to hear the buzzer, use by connecting earphones. In this case, the buzzer does not sound.

**Others**

- This product is suitable for use with infrared beam and red beam type of thru-beam type photoelectric sensors.
- Use 6F22 (S-006P) type 9 V dry cell (1 pc.) for the power supply. Since the 9 V dry cell is not supplied as accessory, please arrange it separately.
- Make sure that the power supply switch of **CHX-SC2** is OFF when the dry cell is installed or replaced.
- Switch off the power supply when not using the sensor checker. Further, if the sensor checker is not used for a long time, remove the dry cell from the sensor checker and keep it separately.
- Take care that the sensor checker is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency lighting device, as it may affect the beam alignment.

**DIMENSIONS (Unit: mm in)**