

COGNEX®

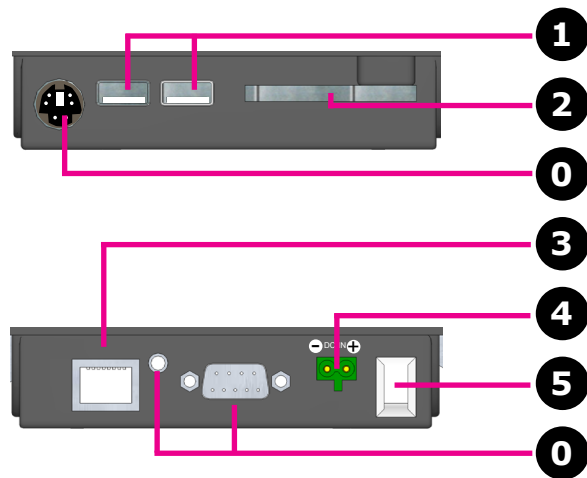
Checker® SensorView®

Quick Reference Guide

SensorView Overview



- Touchscreen control and configuration of Checker 4G sensors with VESA and IP65 panel mount options.



- 1:** USB
- 2:** CF card
- 3:** Ethernet
- 4:** Power connector
- 5:** Power switch
- 0:** Not used

Insert CF Card

1

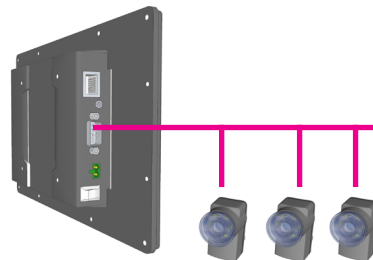
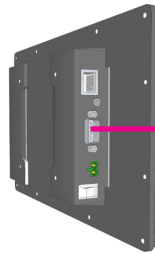


2



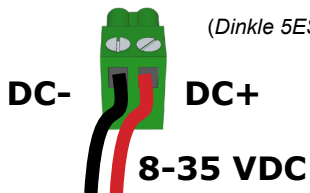
- Insert the supplied CF card in its slot.
- The CF card can only be inserted in one orientation (observe markings on label). **Do not force insertion.**

Connect to Checker or Network



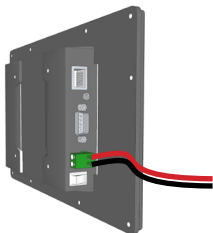
- Connect SensorView directly to a single Checker 4G sensor using CAT5 Ethernet cable.
- Connect SensorView to factory network or user-supplied router to manage multiple Checker 4G sensors.

1



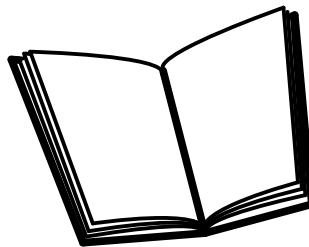
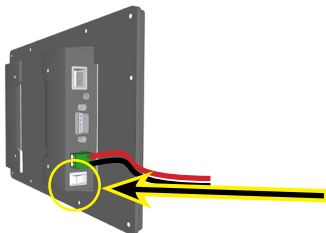
(Dinkle 5ESDV-02P 2P 15A 300V 5mm)

2



- 1: Connect 8-35 VDC power to supplied power plug. Observe polarity as shown. Polarity is marked on SensorView power connector.
- 2: Insert power plug in SensorView power connector.
- 3: Turn power switch on.

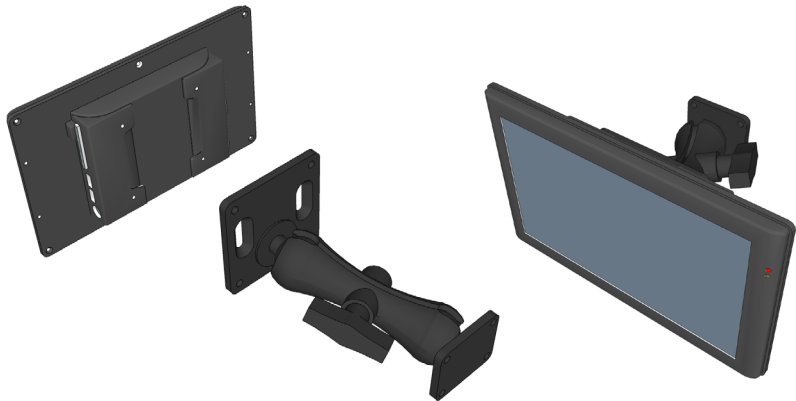
3



WWW.COGNEX.COM/SUPPORT/CHECKER

- For information on connecting and configuring your Checker 4G sensor, refer to the documentation supplied with your Checker 4G sensor.

VESA-Compatible Mounting



- Mount SensorView using any VESA-compatible (75mm) mounting bracket and supplied hardware.
- VESA mounting does not provide IP65 protection.

Panel Mounting

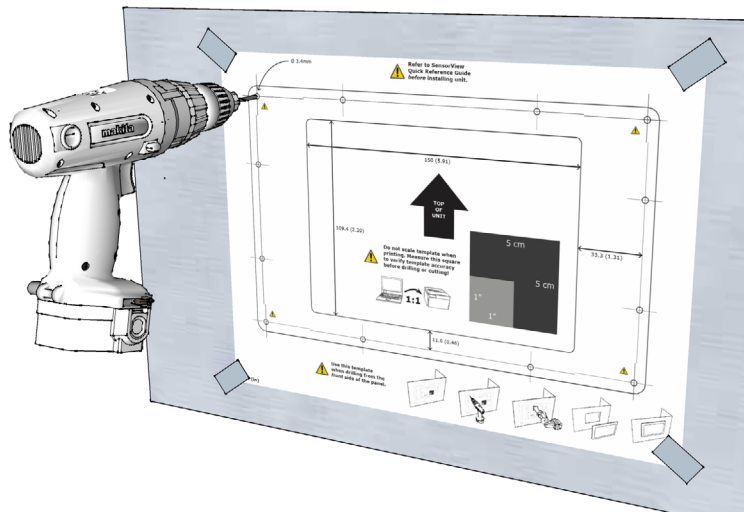


When mounted according to the instructions in this document, SensorView meets the IP65 standard for environmental protection. Failure to follow these instructions may cause damage to SensorView, and the resulting installation may not meet the IP65 standard.

Observe the following requirements during installation:

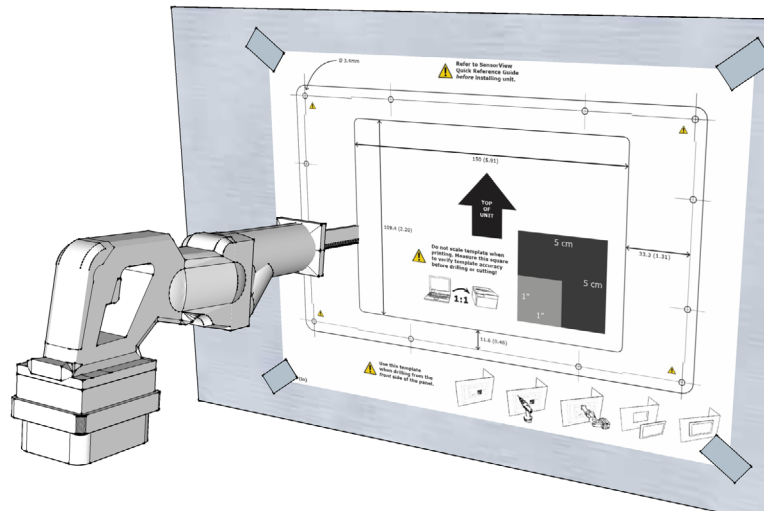
- Download and print the Checker SensorView Mounting Template from www.cognex.com/support/checker. Print the template using a high-quality laser printer, and make sure that the template is not scaled when printed. The template includes 1"x1" and 5cm x 5cm squares that you can measure to verify that the template has not been scaled during printing.
- Drill twelve mounting holes at the locations specified by the template. The mounting holes must be **3.4mm (9/64")** in diameter.
- Note that the arrangement of the mounting holes is not symmetrical. The template file includes different templates for drilling from the front and back of the panel.
- The mounting panel must be metal (steel or aluminum) between 2mm and 5mm thick.
- SensorView must be mounted using the supplied **M3x12** truss-head screws and washers.
- You must observe the two-step procedure for tightening the mounting screws.

Drill Mounting Holes



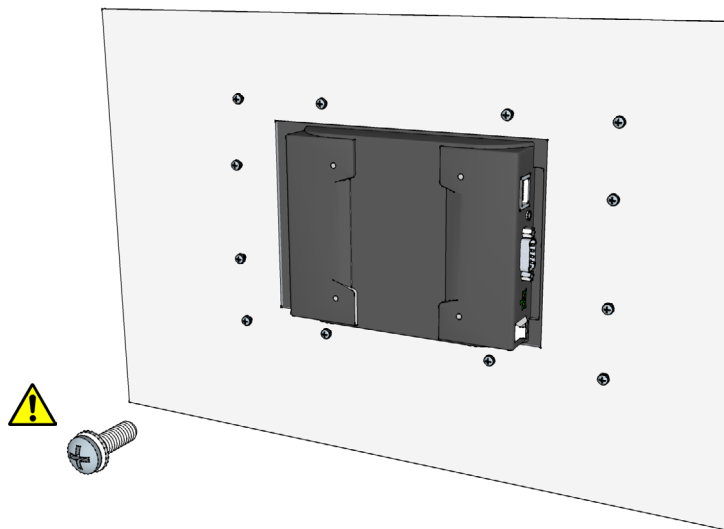
- Take care to use the correct template (front side or back side).
- Make sure that template is printed at 100% scale. Verify correct scale by measuring 1"x1" or 5cm x 5cm squares printed on template. Print template on dimensionally stable heavy stock, if available.
- Drill twelve 3.4mm (9/64 inch) holes at the exact locations specified by the template.

Cut Panel Opening



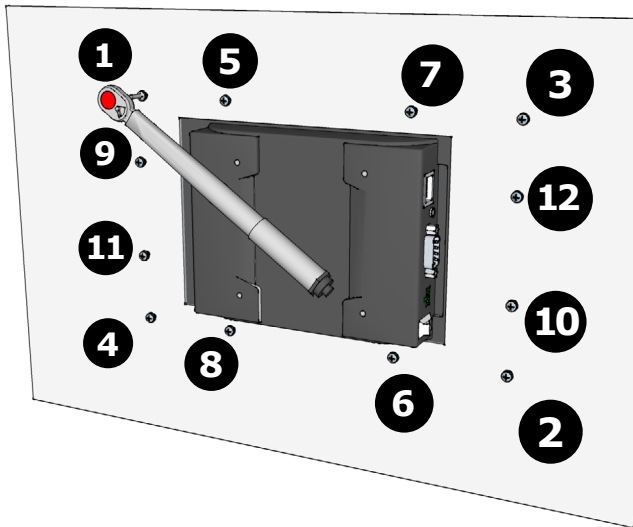
- Observe the panel opening dimensions specified by the template.
- Observe the panel opening position specified by the template (relative to specific mounting holes).
- Do not extend saw cuts past panel opening dimensions.

Attach SensorView



- Use supplied M3x12 truss-head screws.
- Use supplied washers.
- Attach all twelve screws loosely before proceeding to the next step.

Tighten Mounting Screws



- Use calibrated torque wrench.
- Tighten all twelve fasteners to initial torque (5.0 Kgf-cm, 4.3 lb-in, 0.5 N-m) taking care to observe tightening sequence.
- Tighten all twelve fasteners to final torque (12.0 Kgf-cm, 10.4 lb-in, 1.2 N-m) taking care to observe tightening sequence.



1: 5.0 Kgf-cm (4.3 lb-in, 0.5 N-m)

2: 12.0 Kgf-cm (10.4 lb-in, 1.2 N-m)

Specifications

Weight	468 g	
Operating Temperature	0°C — 50°C (32°F — 122°F)	
Storage Temperature	-10°C — 60°C (-14°F — 140°F)	
Maximum Humidity	90% (non-condensing)	
Display	8.9" resistive touchscreen	
Interface	10/100 Mbps Ethernet (RJ45) USB 2.0 (2)	
Environmental	IP65 (When panel-mounted as described in this document)	
Vibration	EN61373 including IEC 60068-2-6, 60068-2-64 6.4, and 60068-2-27	
Power Supply Requirements	8 — 35VDC	Maximum current @ 5V: 1.5A

Safety

- **DO NOT ATTEMPT TO OPEN OR TO DISASSEMBLE THE CHASSIS (ENCLOSURE) OF THIS PRODUCT. PLEASE CONTACT YOUR COGNEX REPRESENTATIVE FOR ASSISTANCE.**
- Read these Safety instructions carefully.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Do not expose the SensorView to rain or moisture, in order to prevent shock and fire hazard.
- Keep SensorView away from excessive humidity.
- Never touch un-insulated terminals or wire unless your power adaptor is disconnected.
- Locate your SensorView as close as possible to wiring connection points. Avoid applying excessive force to cables connected to the SensorView.
- USB connectors supply a maximum of 500 mA. If more power is required by a device, external power must be used.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.

Compliance



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at personal expense.



European Compliance

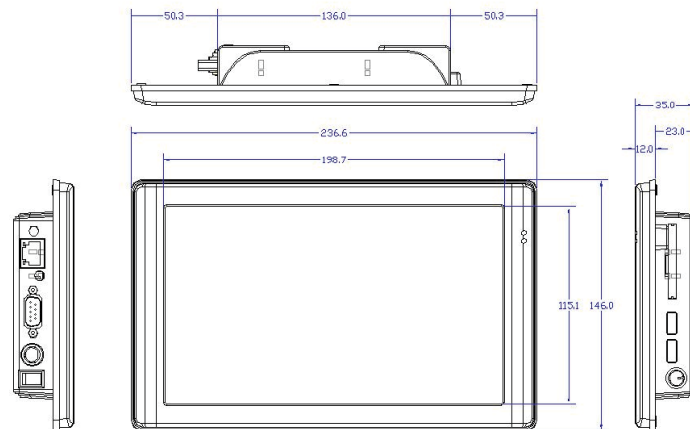
The CE mark on the product indicates that the system has been tested to and conforms to the provisions noted within the 2004/108/EC Electromagnetic Compatibility Directive.

For further information please contact:

Cognex Corporation
One Vision Drive
Natick, MA 01760
USA

Cognex Corporation shall not be liable for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE marked and does not comply with the Low Voltage Directive.

Dimensions (mm)



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