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## PARAGON INDUSTRIAL CONTROLS, INC.

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### *Sick, Inc. V4000 Press Brake Safe Guarding System* "Productive, Safe, Simple & Revolutionary"



The V4000 monitors a 40mm x 26mm area beneath the upper die.



The Automatic Mode Switch Interface allows the System to Automatically Switch between Standard / Box / & Back Gauge Mode

The Sick, Inc. **V4000 Press Brake Safe Guarding System** is a *camera-based* system for complete safeguarding of press brakes. It is an all inclusive sensor and evaluation system, consisting of a sender and a receiver mounted on the upper beam of the press. The V4000 safeguards the area beneath the punch during the hazardous part of the cycle by creating a *safety volume directly below the punch*. Any infringement into the safety volume generates a *two-channel signal to stop the machine*. The resolution is better than 14 mm.

Two Interface systems are available for most Press Brakes. Both interface systems are designed specifically to work with the existing hydraulic press brake control.

The **Manual Mode Switch Interface** consists of an Operator Interface Pendant that provides access to all the features of the V4000 safety system. With the **Manual Mode Switch Interface** the operator can easily perform the V4000 Set-Up Procedure, as well as select the desired V4000 Operation Mode.

The **Automatic Mode Switch Interface** allows the operator to program the sequence between Standard, Box, and Back Gauge modes optimizing safety and productivity. Once a first article is programmed, the interface retains the sequence needed to repeat the part, and *cycles automatically between Standard / Box / & Back Gauge Mode*. The intuitive nature of the interface creates an operator friendly environment. **There is no need to by-pass the safety features of the V4000 Safe Camera unit as is the case with other similar devices.** The combination of the Sick V4000 Safe Camera, and the Paragon Industrial Controls Interface, creates a unique system that is the ***MOST SAFE and EASILY OPERATED Press Brake Safety System*** available on the market today.

#### Complete V4000 Systems Includes The Following:

- V4000 Camera Sensor Unit
- Sensor Mounting Kit & Brackets
- Switch Box Interface
  - Manual or Automatic
- Machine Specific PCB & Hardware
- Encoder & Cable
- Safety Relay and Power Supply
- Type 4 Compliance according to IEC 61496-1 and 2, SIL 3 according to IEC 61508 and is suitable for controls with Safety Category 4 according to EN 954-1.
- Optional:
  - Floor Stand / Mobile Mount
  - Color Touch Screen
  - Program Storage

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PARAGON INDUSTRIAL CONTROLS, INC. brings more than 30 years experience to the stamping and forming industry. We specialize in machine guarding, OSHA compliant control retrofits, custom designed automated systems, Quick-Die-Change systems, Tonnage and Production monitoring systems, robotic systems, and other production enhancing projects. It is our goal is to build, install, or sell products that are not only the safest in the industry, but also the most functional for your particular application.