LASER SECURITY
Carlisle Laser-Align is a laser instrument in laser class II with an output power less than 1 mW, which only requires the following safety precautions:

- Never stare directly into the laser beam.
- Never aim the laser beam to anyone else's eyes.

CAUTION
Lasers are classified as Class II as defined by IEC 60825-1. The output power is below 1 mW, which makes the instrument safe to use in most environments.

NOTE! Opening the laser unit will break the manufacturer warranty.
NOTE! The Carlisle Laser-Align should not be used in explosive risk areas.

DISCLAIMER
Carlisle and our authorized dealers will take no responsibility for damages on machines and plants as the result of the use of the Carlisle Laser-Align.

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TECHNICAL SPECIFICATIONS
Laser Transmitter:
- Sheave diameters: > Ø60mm (2.5"
- Beam angle: 60°
- Measurement distance: 10m [33 feet]
- Battery type: R6 (AA) 1.5V
- Battery operation: 8 hours cont.
- Laser class: 2
- Output power: < 1 mW
- Laser wavelength: 635–670 nm
- Temperature range: -10 – +50 °C [14 – 122 °F]
- Housing material: ABS plastics
- Backplate: Hard anodized aluminum
- Dimensions WxHxD: 145x86x30mm [5.8"x3.4"x1.1"]
- Weight: 270g [8.6oz]

Targets:
- 2 pcs. magnet targets with adjustable center line.

Calibration accuracy:
- Offset < 0.2mm [0.008"]
- Angle < 0.05°

SAFETY PRECAUTIONS
Warning! If starting the machine that will be measured can result in personal injuries, the possibility to unintentionally start it shall be disabled before mounting the measurement equipment, for example by locking the switch in off position or remove the fuses. These safety precautions should remain until the measurement equipment are removed from the machine.

CARE
Clean the tool and the window at the aperture with a dry cotton cloth. If not using the laser for a long period of time, remove the battery.

3. VERTICAL ALIGNMENT
Place the targets vertically according to the picture to check the parallelity between the sheaves. If necessary, shim rear or front feet.

If the offset is too large, move the sheave axially on the shaft until the beam hits in the center of the both targets.

4. HORIZONTAL ALIGNMENT
Place the targets horizontally according to the picture, and adjust the movable machine until the beam hits in the center of the both targets.

5. ADJUST THE BELT TENSION

FEATURE
Attach to non magnetic sheaves. Because of the light weight of the tool and the targets you can also mount the units onto non magnetic sheaves by attaching pieces of double sided adhesive tape to the magnetic surface.

NOTE!
The product is designed to be used on sheaves/pulleys. Both of the magnetic reference surfaces must be in contact with the object.

TOLERANCES
Recommended maximum tolerances from manufacturers of belt transmissions is <0.25°. Recommendations are always dependent on belt type. Please consult the design manual of the specific belt type.