Use
In dirty environments and with increased ambient temperatures, it is recommended to operate the scanner with a protection and cooling housing. The use of the scanner within the limits specified in the technical data is mandatory. The scanner must be operated in such a way that no persons are endangered or machines are damaged in case of malfunctions or total failure of the scanner. Additional precautions for safety and damage prevention for safety-related applications.

Variants
- Protection housing with blow-out system and air supply connection, article 2105058
- Protection housing with blow-out system, air supply connection and water connections for cooling, article 2105059
- Protection housing with protective glass
- Protection housing with cooling circuit for sensor cooling (ambient temperatures up to 95 °C)

Protection and cooling housing scanCONTROL LLT25xx/26xx/29xx
Adaptive protection and cooling housing for scanCONTROL 25xx/26xx/29xx
- Measuring ranges 25 - 100 mm
- Air supply of the optical path
- Exchangeable protective glass
- Water cooling circuit for sensor cooling (ambient temperatures up to 95 °C)

Protection housing scanCONTROL 25xx/26xx/29xx
Adaptive protection housing for scanCONTROL 25xx/26xx/29xx
- Measuring ranges 25 - 100 mm
- Air supply of the optical path
- Exchangeable protective glass

Proper Environment
- Protection class: IP65 (applies only when the sensor cable is plugged in)
- Optical inputs are excluded from protection class. Contamination leads to impairment or failure of the function.
  - Min. cooling capacity: 940 W
  - Max. sensor temperature: 45 °C
  - Maximum pressure: 3 bar
  - Only fluid cooling media are permissible. Air/gas cooling is not possible.

Unpacking / Included in Delivery
- 2 cooling plates (only with protection and cooling housing)
- 2 base plates
- 1 protective plate
- 2 protective glasses

Sensor Mounting, Dimensions
The scanCONTROL sensors are optical sensors for measurements with micrometer accuracy. Be careful with the handling during mounting and operation.

Mount the sensor only to the existing mounting holes/threaded holes on a flat surface. Clamps of any kind are not permitted and can lead to failure of the sensor.

1x air connection
Adjustable splash guard
3x Mounting holes M4
Exchangeable protective glass
Mounting of Protection and Cooling Housing

If the protection or cooling housing is installed subsequently, make sure that the product labels are removed from the scanner (on the side).

Join the right base plate to the protective glass slot. Insert the right cooling plate. Centering pins hold the cooling plate in place.

Remove the protective film from the heat-conducting pad.

Join the scanner to the right cooling plate.

Join the left base plate to the left cooling plate.

Slightly tighten the adjusting screw on the base plates by hand as far as it will go in order to ensure proper heat dissipation. Screw back by 1/2 turn. The pitch of the adjusting screw is 0.75 mm/turn.

Make sure that the ball bearing is half compressed when installed in order to achieve the optimal tolerance compensation. This is why the adjusting screw must be turned back by 1/2 turn after being slightly tightened to the stop.

Pressing the scanner onto the protective glass slot in order to avoid gap formation ensures proper function of the blow-out system.

Tighten the fastening screw M5x16 with a torque of 3.5 Nm.

Push the protective glass from the front into the slot as far as it will go.

Mount the protective plate at the laser entrance window. For fastening, use the allen screw (M4x6) and the set screw (M4x6) included in the scope of supply.

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The scanCONTROL 25xx/26xx/29xx sensors operate with a semiconductor laser with a wavelength of 658 nm (visible/red) or 405 nm (visible/blue).

The operation of the laser is indicated by an LED on the sensor.

The laser warning signs are concealed by the protection housings or had been removed prior to mounting. Additional stickers (warning signs etc.) are included in the delivery.

Stick the signs according to the laser class of your scanner on the protection or cooling housing, front and rear.

Mounting of Protection Housing

Join the scanner to the left base plate with the protective glass slot.

Join the right base plate to the scanner.

Join the scanner to the right base plate with the protective glass slot.

Pressing the scanner onto the protective glass slot in order to avoid gap formation ensures proper function of the blow-out system.

Tighten the fastening screw M5x12 with a torque of 3.5 Nm.

Push the protective glass from the front into the protective glass slot as far as it will go.

Mount the protective plate at the laser entrance window. For fastening, use the allen screw (M4x6) and the set screw (M4x6) included in the scope of supply.