ILEE® **LASER ALIGNMENT DEVICE ECO-PSD**

SHORT DESCRIPTION

The alignment system ECO-PSD has been developed as a cost-effective system for the mutual centring or alignment of machines or their components. It offers an attractive alternative for measuring processes that do not necessarily require ease of use and the ability to log high-quality systems.

The centring system consists of a laser source with axis centring, a centred sensor and the display unit. The sensor is connected to the display unit by a cable. There are two sockets on the sensor (see image above) so that it can be connected both axially and radially. The cable length to the display unit can be freely defined on request. If necessary, it is also possible to connect several cables in series in order to bridge larger distances.

The alignment device is primarily a centring guide and is not designed for measuring shelves from the centre. The display in millimetres is approximately linear up to approx. ±0.50. For a larger shelf, a deviation is noticeable that may be up to 15% at 1.5 mm. This means that the closer you measure to the centre, the more accurate (linear) the system is.

CHARACTERISTICS

- Resolution approx. 10 µm
- Sensor centring ‹15 µm
- Measuring range ±1.5 mm
- Daylight filter on sensor
- Sensor with radial and axial connection
- High-contrast display with 14 mm digit height
- Battery operation with switch-on display
- Operating distance up to 15 m
- Mobile, robust design
- Possible to mechanically adapt the system to customer requirements

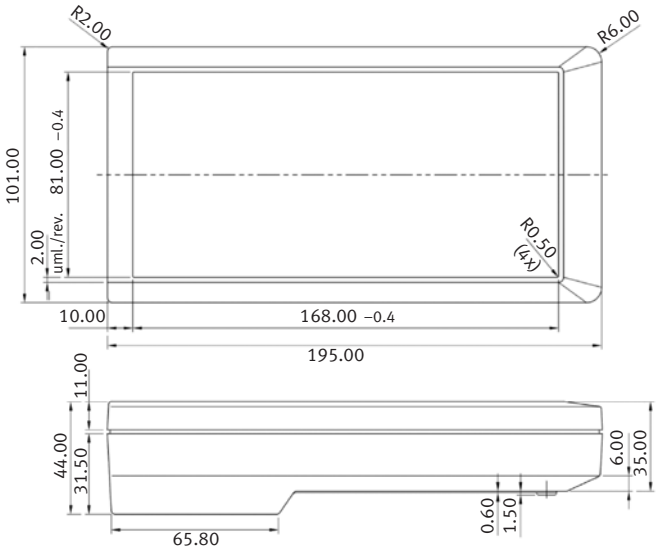
TECHNICAL DATA LASER ALIGNMENT DEVICE PSD-ECO	
Operating distance	0.1...15 m
Display resolution	10 µm
Measuring rate	3 measurements per second
Accuracy in the centre	0 ± 1 Digit
Accuracy at approx. ±0.20 mm	Measured value ± 2 Digit
Accuracy at approx. ±0.50 mm	Measured value ± 4 Digit
Accuracy at approx. ±1.00 mm	Measured value ± 6 Digit
Display	LCD with digit height of 14 mm
Display connection	1 shielded connector, binder type 712
	5-pin with screw connection
Display unit weight	415 g (incl. batteries)

Sensor connection	2 shielded sockets, binder type 712
	5-pin with screw connection
Sensor cable, shielded 5 x 0,14 mm²	5 m*
Daylight filter	Cut-off wavelength 600 nm
Sensor weight	190 g
Degree of protection (IP code)	IP40
Operating temperature	0...+40°C
Storage temperature	0...+50°C
Power supply	2 x block battery (6LR61), 9V

Unless otherwise stated, the specifications apply at room temperature and under normal operating conditions.
** Standard cable length, other lengths available on request.*

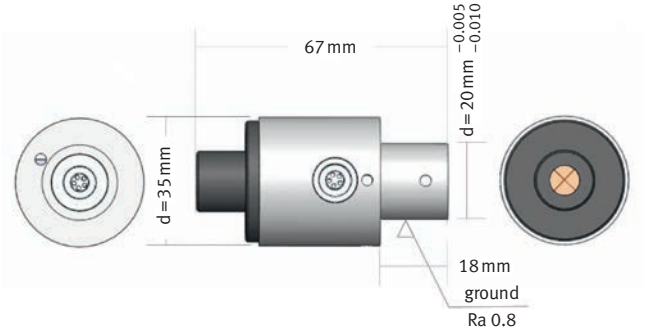
DISPLAY UNIT

DIMENSIONS



SENSOR

DIMENSIONS



LASER

Laser sources can be offered in different housings. Please contact our customer service representatives to select a laser suitable for your application.

Laser beams can cause damage to your eyes.
The user is responsible to observe the local safety regulations.

Mistakes and technical changes reserved.

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ILEE LASER-INNOVATION