

Process Adapters PA

Process monitoring - a combination of piercing sensor and lens crack sensor



Process adapter for cutting head HP1.5"

System types / Lasers:

- CO₂ laser

Features:

- online monitoring of process
- monitoring of piercing and cutting process
- detection of
 - lens damages (burn marks)
 - larger spatters burned into the lens
- working with actual piercing times
- detection of a lost cut and plasma
- suitable for use with HP1.5", HP2", HP2" M cutting heads

Piercing sensor

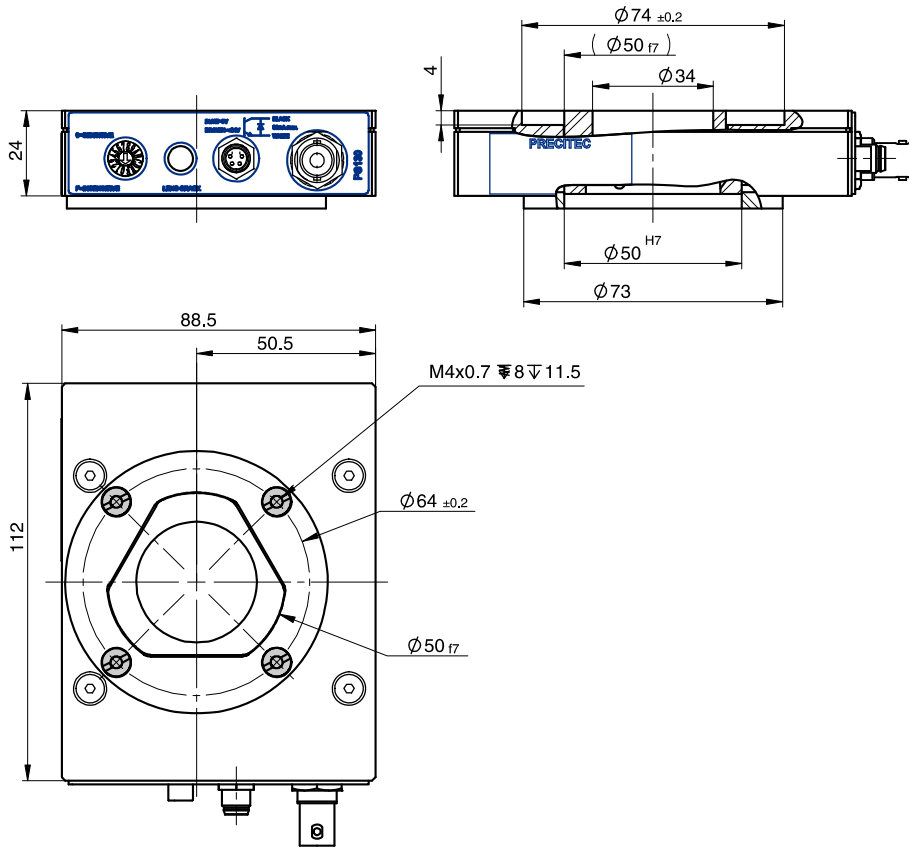
Based on an analysis of the emissions during cutting, this sensor unit monitors the piercing and cutting process online. Actual piercing times could be used, resulting in significant time savings during the piercing process in comparison to pre-programmed times.

Lens crack sensor

The lens crack sensor detects larger amounts of spatter and damage to the focusing lens. As soon as the scattered radiation of the lens exceeds a threshold value, an emergency stop signal can be delivered to the laser beam source. Further damage and contamination of the beam guiding system (mirrors), caused by the destruction of the lens, can be avoided.

Spontaneous local damage of the lens can also be detected.

Dimensions of process adapter PA HP1.5"



Technical specifications of process adapter PA

dimensions of PA HP1.5"	112 x 88.5 x 24 mm
dimensions of PA HP2", HP2" M	140 x 104 x 22 mm
mass of PA HP1.5"	0.5 kg
mass of PA HP2", HP2" M	0.7 kg

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore **all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information.**

01/Bg/19.11.08



Precitec KG

Draisstr. 1 - 76571 Gaggenau - Germany

Tel.: +49 (0)7225 684 0

Mail: precitec@precitec.de

Fax: +49 (0)7225 684 900

Internet: www.precitec.com