Adjust Box EG8030

Electronics for precise distance measuring at high cutting speeds

Optimal cutting quality and speed can only be achieved if a consistent distance is achieved between the workpiece and the cutting head. Even the smallest deviations can lead to burr formation and negatively affect the cutting speed, the roughness of the cutting surfaces and gap width. This is why all Precitec cutting heads have integrated distance sensors which form a fully automated distance control loop when supplemented with the EG8030 adjust box.

>> EFFICIENT

- multifaceted possibilities for user-defined parameterization
- recording/storage of up to 32 characteristic curves
- measurement of sensor temperature and plasma activity

>> FLEXIBLE

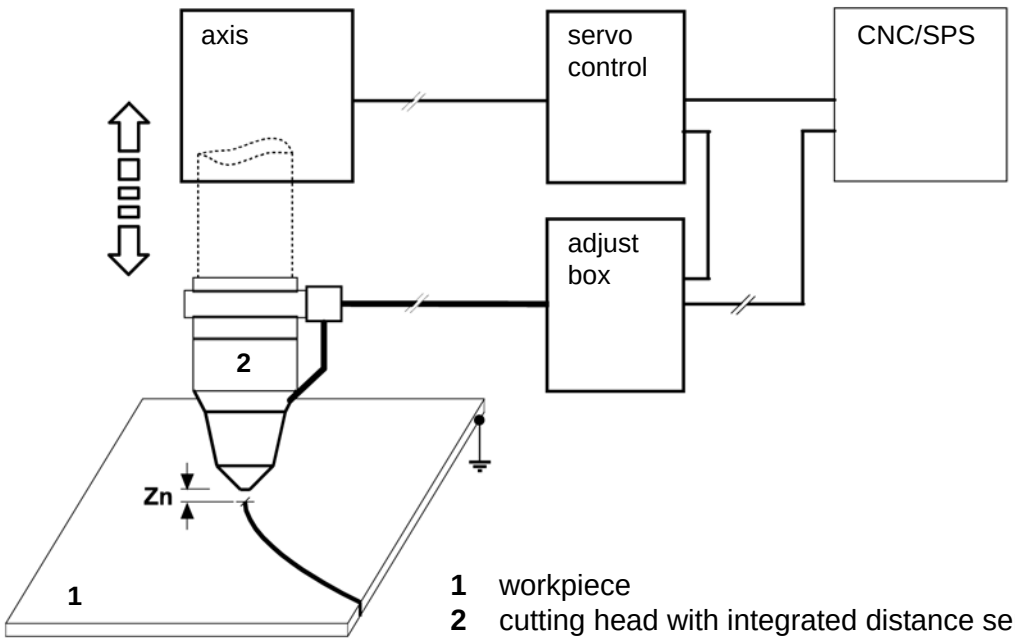
- generation of error signals for switching off the drive when an error occurs
- I/O interface as interface with the primary controller or CAN Open

>> USER FRIENDLY & SAFE

- for all laser cutting applications with capacitive Lasermatic® distance sensor technology
- saving and tracing of parameters possible
- password-protected access authorization

Laser Cutting Technology | Electronics

Schematic system overview



1 workpiece
2 cutting head with integrated distance sensor

>> The distance to the workpiece surface is detected by means of capacitive distance sensors in the cutting head. The sensor signal is fed to the adjust box, which then analyses it. The output signal can then be used to control a linear drive.

Technical specifications of EG8030 adjust box

supply voltage	24 V DC ±10% / max. 6W
measuring range	0.1 mm to 20 mm (sensor-dependent)
mass	0.8 kg
dimensions (W x B x T)	128 x 71 x 184 mm
measuring principle	Lasermatic®

Precitec KG
Draisstr. 1 - 76571 Gaggenau - Germany
Tel.: +49 (0)7225 684 0 Fax: +49 (0)7225 684 900
Mail: precitec@precitec.de Internet: www.precitec.com