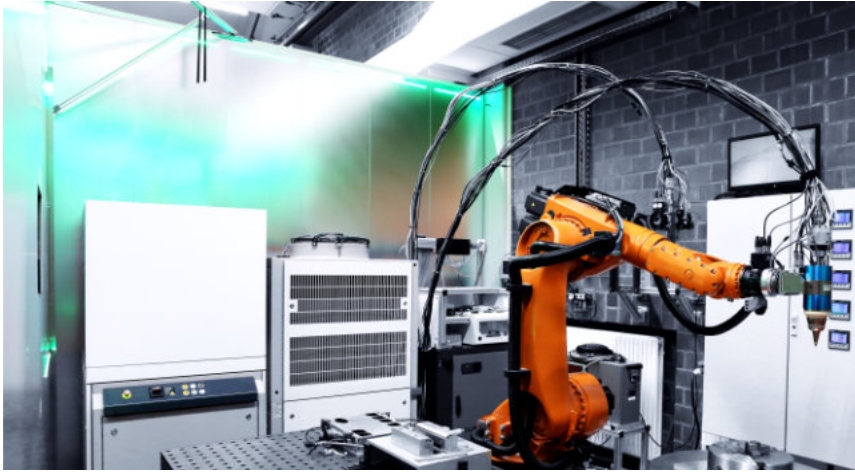


SMART SHIELD **NEW!**



Smart Shield is a retrofittable, fully automated laser protection system facing the laser that uses the existing protective wall as passive protection for the duration of the shutdown process.

The system uses a very thin sensor foil, with full-surface metallic layers, to detect impermissible laser beam radiation to prevent damage or penetration of the passive protection.

Status LED strips on the inside of the wall indicate activation and fault-free status for each wall strip in green. Damaged areas are indicated with a red warning light.

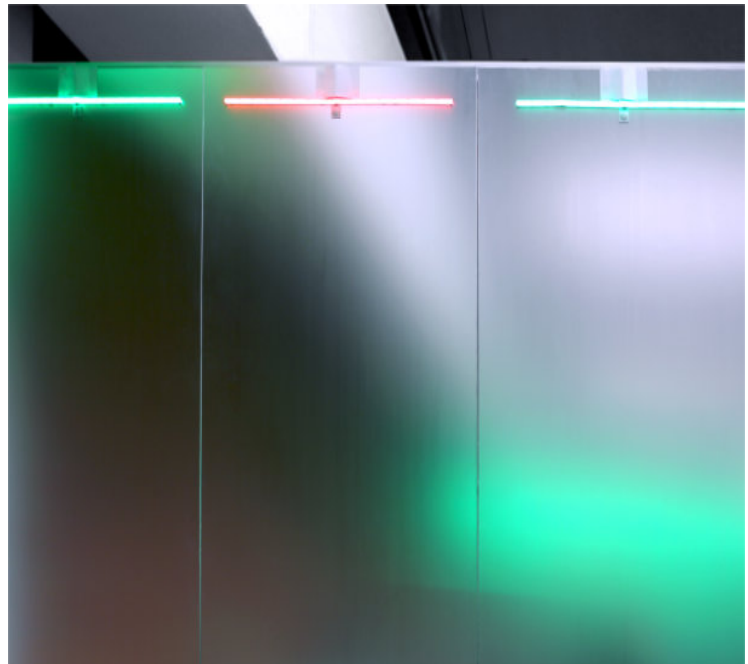
Particularly in the case of fully automatic systems that are not permanently monitored, timely shutdown offers a major safety advantage, as the walls would take damage if they are not shut down and would otherwise have to withstand an irradiation time of 30,000 seconds.

Depending on the system and the boundary conditions of the laser radiation, switch-off times in the range of 100 ms can be achieved.

The minimum distance of the laser focus to the cabin wall is 130 millimeters at 5 kW laser power.

SMART SHIELD meets the following guidelines:

- ▶ Electromagnetic compatibility 2004/108/EG
- ▶ DIN EN 60825-1 (VDE 0837 Part 1)
- ▶ 2006/95/EG - Low Voltage Directive
- ▶ 2014/30/UE - EMV-Directive
- ▶ 62368/EN - General product safety



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