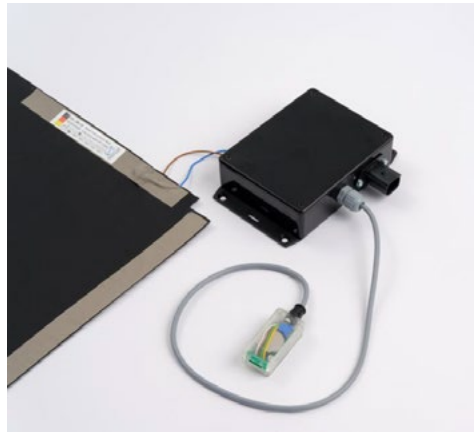


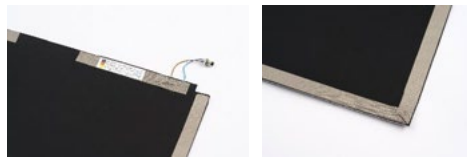
Hitzeschutz // Arbeitsschutz // Isoliertechnik // Laserschutz  
 Heat Protection // Work Protection // Insulation Technique // Laser Protection  
 MADE IN GERMANY.

## Active Laser Protection Sensor ML-19

- For high-power laser and fully automatic applications -



Switch-off electronics and active laser protection sensor



Detailed images of the active laser protection sensor

**Description of function**

- Active textile-based laser protection sensor including switch-off electronics. Opens the safety circuit in the event of destruction by the laser beam before laser radiation is transmitted.
- Active laser protection sensor is typically mounted between two metal sheets.
- ATTENTION: Additional passive laser protection required!

**Applications**

- Local equipment of machines and housings in particularly exposed places
- Also for fully automatic laser systems
- Protects against direct radiation up to 12 kW
- Particularly suitable for high-power lasers (e.g. welding, soldering or cutting) of class 4 from approx. 1 kW

**Dimensions**

- Height and width of system *always* according to your requests
- Cut-outs, holes, drilled holes possible
- Max. size approx. 4 m<sup>2</sup> per section
- Max. width approx. 1.4 m per section

**Fastening Properties**

- Collar sleeves and screws
- High mechanical flexibility
- Great geometric freedom in the design
- Two-channel system performance level „e“
- Easy to integrate into the safety circuit
- Completely silicone-free

**Color**

- Black on both sides

**Thickness**

- Approx. 0.5 cm

**Weight**

- Approx. 0.4 kg/m<sup>2</sup>

**Standard**

- DIN EN 60825-4 VDE 0837-4:2011-12
- DIN EN 12254:2012-04
- EN ISO 13849-1:2015
- Certified by independent expert

**Designation**

- LSV...ML-19

**Delivery scope**

- Laser-sensitive sensor, rolled
- Switch-off electronics

**Suitable**

- Patch cable

**Accessory**

- Fastening bracket

### Requirements for the laser system

Laser output	≤ 12 kW
Wavelength	900 ... 1080 nm
Beam diameter d <sub>86</sub>	≥ 5 mm
Protection limit radiation	≤ 5,0 * 10 <sup>7</sup> W/m <sup>2</sup>
Laser switch-off time	≤ 120 ms
Service life of passive reserve	≥ 300 ms

(not part of ML-19)

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