

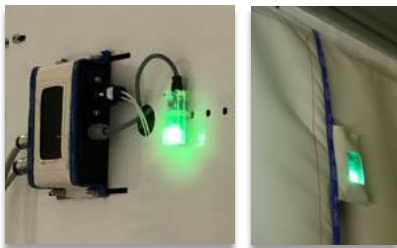
Hitzeschutz // Arbeitsschutz // Isoliertechnik // Laserschutz  
Heat Protection // Work Protection // Insulation Technique // Laser Protection  
MADE IN  GERMANY.

## Active laser protection curtain ML-20

- For high-power lasers and fully automated applications -



Active laser protection curtains connected in series



Electronic cut-off incl. indicator LED

Laser system requirements	
Laser output	≤ 12 kW
Wavelength	900 ... 1080 nm
Beam diameter $d_{86}$	≥ 5 mm
Permissible exposure limit (PEL)	≤ 5.0 *10 <sup>7</sup> W/m <sup>2</sup>
Laser switch-off time	≤ 120 ms

<b>Functional description</b>	- Active laser protection system on textile basis incl. electronic cut-off and patch cable. In the event of destruction by the laser beam, opens the safety circuit before laser radiation is transmitted.
<b>Applications</b>	- Demarcation of laser areas - Local equipment of machines and housings at particularly exposed locations - Also for fully automatic laser systems - Protection against direct irradiation up to 12 kW - Particularly suitable for high-power lasers (e.g. welding, soldering or cutting) of class 4 from approx. 1 kW upwards
<b>Dimensions</b>	- Height and width of the system <i>always</i> according to your requirements - Cutouts, holes, bores possible - Max. size approx. 4 m <sup>2</sup> per section - Max. width approx. 1.4 m <sup>2</sup> per section
<b>Attachment options</b>	- Piping - Loops - Eyelets / Rings - Screws
<b>Features</b>	- High mechanical flexibility - Easy to clean - Excellent brightness due to the pearly, diffusely reflecting surface on one side - Completely silicone-free
<b>Color</b>	- Front side pearly (white) - Rear side black
<b>Thickness</b>	- approx. 1 cm
<b>Weight</b>	- approx. 1.8 kg/m <sup>2</sup>
<b>Standard</b>	- DIN EN 60825-4 VDE 0837-4:2011-12 - DIN EN 12254:2012-04 - EN ISO 13849-1:2015 - Certified by independent assessor
<b>Designation</b>	- LSV...ML-20
<b>Scope of delivery</b>	- Laser protection curtain, rolled
<b>Matching accessories</b>	- Mounting bracket - Customized rail system - Swivel arm frame, mobile cabin

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