

LDWS-2020

Laser detector and warning system

LDWS-2020 is a device used for detecting laser irradiation. The system is designed to activate an alarm (with audio and visual feedback) and, if requested, other countermeasures, when it detects that the vehicle it was mounted on has been marked by various types of lasers including laser range finders, laser designators and laser beam riders. The system consists of four detection modules, tasked with capturing both direct and indirect rays, and, optionally, an interior unit used for displaying the direction and type of said laser irradiation.

Technical characteristics :

Detectors of direct laser emission

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|---------------------------------|--------------|
| • Number of receivers | 4 per module |
| • Azimuth field of view | 360° |
| • Elevation field of view | -5° to +55° |
| • Direction of arrival accuracy | 8° |

Indirect laser detection

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|---------------------------|--------------|
| • Number of receivers | 2 per module |
| • Azimuth field of view | 360° |
| • Elevation field of view | -30° to -5° |

Vertical laser detection

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|----------------------------------|---|
| • Cone angle | 65° |
| • Number of receivers per module | 1 |
| • Wavelength range | 400 – 1700 nm |
| • Optional wavelength range | 400 – 2200 nm (optional)
8000 – 12000 nm (optional) |
| • False alarm rate | < 1 in 72 hours |
| • Probability of detection | ≥ 99% |
| • Sensitivity | 100 W/m ² (direct/indirect)
1 W/m ² (vertical) |
| • Data interface | CAN Bus 500 kb/s |
| • Voltage | 18-32 VDC |
| • Current per module | ≤ 300 mA @ 24 VDC |
| • Operating temperature | -32°C to +60°C |
| • Module dimensions | 150x130x100 mm |
| • Module mass | 1,2 kg |

