Visual guidance system
MS-WSN HELA IR

MS-WSN HELA IR is a visual guidance system assisting the pilot in maintaining the correct azimuth of the helicopter approach track to the landing pad. The system consists of two lamps placed symmetrically on the both sides of the landing area at the edges of the FATO, parallel to the preferred approach direction. Both lamps are synchronized with each other and emit sequences of light flashes in angle sectors within +/- 15^{o} horizontal and +/- 10^{o} vertical angle span in relation to the preferred approach path. The flashes of light are visible to the pilot and deliver information on the needed correction of the flight.

MS-WSN HELA IR system is an upgrade previous MS-WSN HELA system with added IR LEDs to help the pilots with NVG goggles, which darken visible light.

Basic MS-WSN HELA IR system parameters:

- Two lamps emitting light flash sequences in 2^{o} wide angle sectors
- White light with intensity > 9,000 cd
- IR radiation power > 20 W/sr
- Both white light beam and IR radiation can be independently switched on and off
- LED working time > 100,000 hours (> 10 years)
- Horizontal light distribution +/- 15^{o} (15 sectors 2^{o})
- Vertical light distribution +/- 10^{o} around preferred approach path
- Intensity regulation 100%, 30% and 10%
- Monitoring of the lamp system operation possible with My-Soft controllers,
- Automatic defrosting of the lamp
- Housing made of stainless steel steel with orange painted sun shields, IP65, IK10
- Dimensions of the lamp body (length x depth x height) 370 x 350 x 310 mm
- Weight 12 kg (lamp body only)
- Working temperature -40^{o}C - + 55^{o}C
- Storage temperature -40^{o}C - + 55^{o}C
- Power supply 230 V AC +/-10%
- Average power 60 W (white light only),90 W (white light + IR), max power consumption 300 W

Producer and distributor:

MY-SOFT Sp. z o.o.
ul. Parcelacyjna 1A
03-155 Warszawa

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mysoft@mysoft.com.pl
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- Protection class I
- Electric connection box 300 x 300 x 210 mm
- Warranty 3 years

MS-WSN HELA IR lamps are CE marked with sign and meet the requirements of:

- European safety standards: EN 60950-1, EN 61347-1, EN 61-347-2-13
- European Electromagnetic Compatibility (EMC) Directive: EN 55022, EN 61000-3-2 class A, EN 61000-3-3 (EMC emission), EN 55024, EN 61000-4,2,3,4,5,6,8,11, criterion A (EMC immunity)
- ICAO International Standards and Recommended Practices: Annex 14 to the Convention on International Civil Aviation, Aerodromes, Volume II, Heliports, Edition IV, July 2013, Chapter 5, Point 5.3.5

Meeting the above mentioned requirements has been confirmed by tests in the polish accredited optical laboratory and tests at the polish Aviation Emergency Service.

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