

Semiconductor-produced "LSzR"-type source of light of safety & signal installations

A source of light constructed out of **LED diodes** is an ideal light-emitter device of signal & safety installations, because of its colour, luminosity & other parameters, because:

-its colour is pure (red 650nm \pm 20nm, yellow 590nm \pm 15nm, green 500nm \pm 10nm blue 470 nm \pm 10nm, white x=.31; y=.31 coord.)

-no phantom-light

-it has intense & constant luminosity

-it operates quickly ($F_{\text{mod}} > 1$ MHertz)

-its lifetime is long

-it is extremely reliable (MTBF > 4 years)

-it is robustly built (> 10 g resistance to acceleration)

-light-characteristic is nearly at will (it might be asymmetrical)

-it works very efficiently

and there is no need for any supplementary assembly, such as lens, colour filter, filament-lamp, nor maintenance is required.

It can be properly fitted to electronic signal sources & equipments.

It is light-technically qualified by the **Hungarian Electrotechnical Supervisor Institute**, it is safe-technically & railway-technically qualified by the **Technical University of Budapest**. Qualification is certified by **Certificate of Suitability**, based on **Nr. 485.005/1995**.

A short chart about currently produced types:

Nominal diameter of setting up-calibre	LSzR 40 Ø 40 mm	LSzR 150 Ø 150 mm	LSzR 200 Ø 200 mm
diameter of fitting-rim (nearly)	Ø 65 mm	Ø 165-170 mm	Ø 210-220 mm
luminosity (nearly)	25-60 candela	120-750 candela	150-1000 candela
colour	red, yellow, green, blue, white	red, yellow, green, blue, white	red, yellow, green, blue, white
nominal voltage of the basic type	24 V \pm 5% (D.C.) or 12V \pm 5% (D.C.)	10,5 V \pm 15 % (DC or AC) or 21 V \pm 15% (DC or AC) or 35 V \pm 15% (DC or AC)	10,5 V \pm 15 % (DC or AC) or 21 V \pm 15% (DC or AC) or 35 V \pm 15% (DC or AC)
max. nominal input-power	1,4 W without cooling, 3W with cooling	17 W	34 W

Further informations at the producer Company:

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