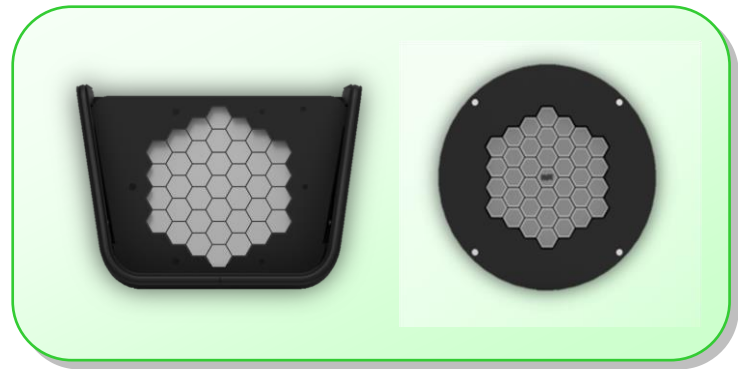


### Product Description:

Signal lamp is designed for exterior lighting of railway vehicles. The lamp consists of a modular optical system that allows to create various custom light shapes on customer request. The lamp uses SMD LEDs with high luminosity as the light source. The optical system is designed to meet the requirements of standards ČSN EN 15153-1, TSI 1302/2014 LOC&PAS and UIC

534 for conventional and high-speed vehicles when using 36 plastic customised optical elements. The lamp is fitted with 36 white LEDs for use in marker lamp mode and 36 red LEDs for use in tail lamp mode, with each colour controlled by a separate driver. LED drivers also perform diagnostics of the LEDs and indicate any fault states on the diagnostic relay output. The luminous intensity of the LED-based MTL04 lamp is adjustable to several levels.

An advantage of MTL04 lies in significantly improved utility properties thanks to the customer-designed optical system and the use of LEDs instead of classic light bulb- or halogen lamp-based lighting, which brings high reliability, longer service life and lower operating and maintenance costs and thus also higher safety in the use of the railway vehicle. MTL04 can be used on new railway vehicles or as a full-fledged replacement for existing light bulb lights.



### Technical Parameters:

Type designation	MTL04/AA00	MTL04/BA01
Number of optical elements	36	
Lamp type	combination of marker lamp and tail lamp	marker lamp
Supply voltage $U_n$	16.8 – 30 V DC	
Recommended input protection	6 A circuit breaker	
Diagnostic relay output	0.00001 A / 24 V minimum	
	1 A / 24 V maximum	
Maximum input consumption	4 to 8 mA at 16.8 to 30 V DC, resistance load	
Design in line with	ČSN EN 50155, ČSN EN 15153-1, TSI 1302/2014 LOC&PAS, UIC 534	
Ambient temperature	OT4	
Ambient storage temperature	-40 °C to +70 °C	
Humidity	In line with ČSN EN 50155	
Impacts and vibrations	Category 1, class A, in line with ČSN EN 61373	
Supply voltage tolerance	0.7 $U_n$ to 1.25 $U_n$ , supply voltage interruption S1	
Insulation resistance	In line with ČSN EN 50155	
Electric strength	Between live sections and frame 500 V	
Enclosure rating pursuant to ČSN EN 60529	IP65	
Mounting position	in accordance with print on the rear of the lamp	
Termination	SUPERSEAL connector, 11 conductors	

*Manufacturing quality is guaranteed by the observance of procedures for quality management in accordance with ČSN EN ISO 9001:2015.*