



Associated products



LX-DGA00-209-55-T

LX-DGA00-314-55-T

LX-DGA00-416/418/422-55-T

LX-DGA00-524-55-T

- Integrated constant-current driver with versions available for 24V DC, 72V DC, 110V DC and 230V AC supply systems.
- High-efficiency, flicker-free illumination with instant-start operation and efficacy up to 160 lm/W.
- Wide input-voltage tolerance with protection against reverse polarity, electrical transients, undervoltage and short supply interruptions.
- Adjustable 90° G5 end caps for accurate rotational alignment and controlled light distribution.
- Aluminium housing with frosted polycarbonate diffuser for effective thermal management and uniform 180° illumination.

The LMX LED T5 Rail Tube is engineered for new-build and retrofit rolling stock lighting applications. It combines high-efficiency LED technology with an integrated constant-current driver and is available in versions for 24V DC, 72V DC, 110V DC and 230V AC supply systems.

Designed for demanding railway electrical and mechanical environments, the tube maintains stable, flicker-free light output during voltage variation, electrical transients and short power interruptions. The aluminium housing supports effective thermal management, while the frosted polycarbonate diffuser provides uniform 180° light distribution.

The most efficient LED lighting available in the UK and Europe.

Case Study Project

Alstom Rail required a compliant LED retrofit system to replace legacy fluorescent lighting across selected rolling stock fleets. Compatibility with existing luminaires and wiring. The new system needed to meet strict railway electrical, safety and EMC standards, while delivering improvements in energy efficiency, reliability, and passenger comfort.

Review

"We have purchased rolling stock rail tubes from LMX LED and were highly impressed with both the product quality and their professionalism. They answered all our technical questions clearly, and the tubes passed our strict compliance requirements with ease. Excellent service and a smooth overall experience."

Patrick Bernard
System Engineer - Alstom

Data	LX-DGA00-209-55-T, LX-DGA00-314-55-T, LX-DGA00-416/418/422-55-T, LX-DGA00-524-55-T
Input Power	9W / 14W / 16W / 18W / 22W / 24W
Efficiency	160 lm/W - 5000K (4000K and 6500K also available)
Lumen maintenance	L90 > 54,300 hrous / L80 > 108,000 hours
Beam angle	180°
CRI (Colour Rendering Index)	>80 or >90
Colour Temperatures available	3000K / 4000K / 5000K / 6500K / OEM
Input Voltage	DC24V / DC72V / DC110V / AC230V /50-60Hz
Voltage Range	16-36V / 50-100V / 75-154V / 165-275V
Power Factor (PFC)	>0.9
Flicker	Flicker Free
Length	563mm / 863mm / 1163mm / 1463mm x 22mm or OEM
Weight	132g / 176g / 225g / 250g
Housing material	Aluminium body and polycarbonate frosted diffuser
Connector	G5 Lamp Holder
Connector rotation	90°
IP Rating	IP40
Operating Temperature	-25°C to 70°C (advice 25°C)
Storage Temperature	-30°C to 80°C
Designed Service Life	15 years
MTBF of Driver	806,026 hours
Switch Cycles	100,000
Standards	EN 50155, EN 50121-3-2, EN 61373, EN 45545, EN 60081, EN 60529, EN 62776, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, IEC 62776, IEC 62031, ENC Directive Compliance, LVD (Low Voltage Directive) and RoHs.

T5 Led Tube Size and Power

