



# ortana Railway

#### RAILWAY SIGNAL LAMP

Railway signaling systems are used for railway traffic management in a safe manner and to make railways more efficient.

Ortana Railway Traffic Signal Lamp produced with innovative optical design by Ortana with state of Art Interface Technology which supports various interface standards available. Rail LED Signal Lamp is suitable for all applications that require high intensity signals and also low-cost and maintenance-free solution.

> Red, Green, Yellow, Blue, White Color Options Light Intensity Dimming Feature 20W Power Consumption for per lamp (Normal Mode) 9W Power Consumption for per lamp (Dim Mode) Very Low Maintenance Cost Minimum 15 years of Lifetime Very High MTBF Approved and certificated according to SIL-4 Environmental System Digital I/O Control (Optional)







Ortana Railway Traffic Signal Lamp Housing is manufactured with corrosion-resistant aluminum. The surface of the products are painted with UV-resistant black paint that does not fade in the sunlight. Product housing is fully resistant against water and dust ingression. Ortana Railway Traffic Signal Lamp can be freely mounted on a background plate with either a fixed or an adjustable mounting. Electrically, power and data connections of the product are connected via an external high quality industrial connector which is water/dust proof and resistant to the irregular vibrations that may occur around the railway, and are located on the back of signal light.

Ortana Railway Traffic Signal Lamps are compatible with the German and British standards.

Ortana Railway Traffic Signal Lamps are SIL-4 certified.





### **General Specifications**

Radiating Element	Light Emitting Diode	
Luminous	Control Remote Light Intensity Setting Feature	
Earthing by	M4 screw	
<b>RAMS Characteristics</b>		
Standard Used	EN50126:2017	
MTBFF	6,332E+08	
THR	1,579E-09	
<b>Electrical Specifications</b>		
Control Unit	Microcontroller	
Radiation Intensity	Light Intensity Adjustment Feature	
Power Requirement	12 VAC ± 10%, 50-60 Hz (Normal mod) 8 VAC ± 10%, 50-60 Hz (Dim mod)	
Power Consumption (per lamp)	20W (Normal mod) 9W (Dim mod)	
Optical Specifications (per lamp)		
Net Visual Area	Ø210 mm	
Unit Number of LEDs	61	
LED's Coordinates (Red, Green, Blue; White)	In accordance with DIN6163/part 4:2011 / BS1376:1974	
LED Technology	AllInGap	

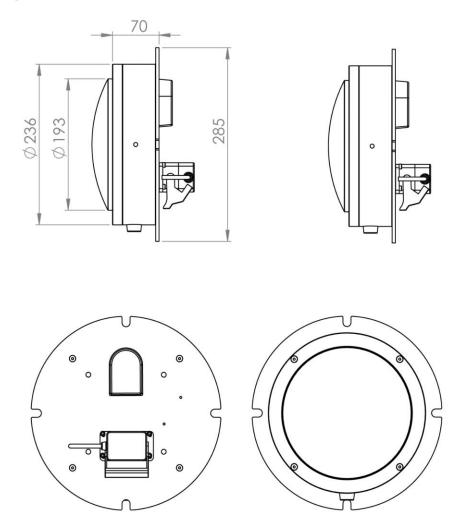


#### **Radiant Intensity**



ORTANA RTSL Model Name	Intensity* Maximum Intensity(cd)	Intensity* Luminous Intensity (cd)
RTSL-R	390	50
RTSLF-R (with Fresnel lens)	3.680	500
RTSL-G	380	50
RTSLF-G (with Fresnel lens)	5.100	720
RTSL-Y	420	60
RTSLF-Y (with Fresnel lens)	4.000	600
RTSL-W	650	90
RTSLF-W (with Fresnel lens)	6.350	900
RTSL-B	140	20
RTSLF-B (with Fresnel lens)	1.850	260

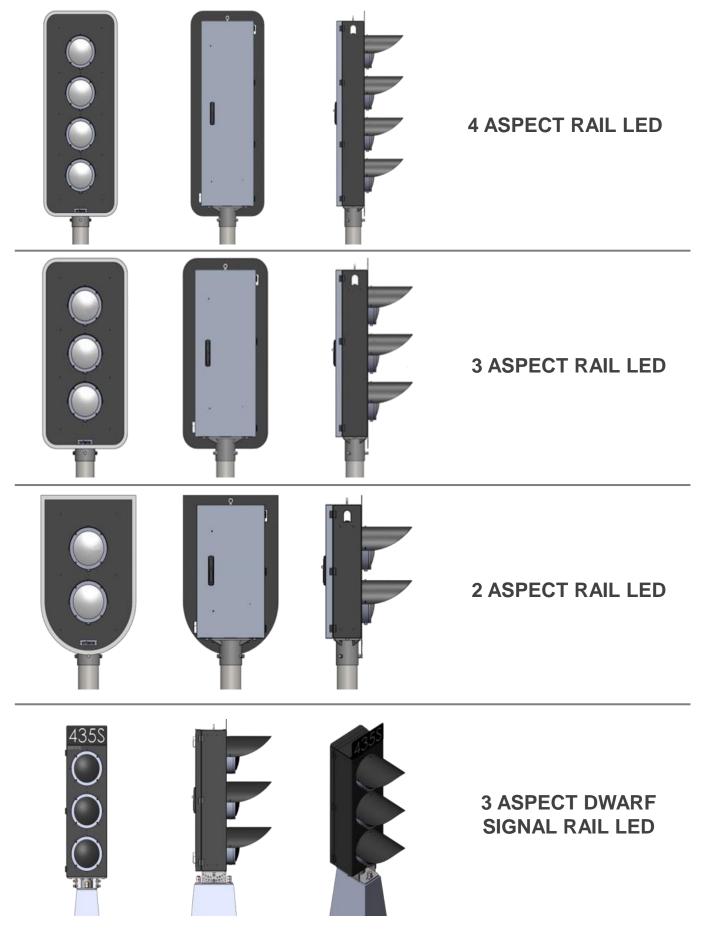
### **Mechanical Specifications**



Housing	Aluminum
Isolation	IP65 (EN 60529)
Front Face	Polycarbonate Optical Lenses (Fresnel lenses is added to the structure for the long distance version)
Paint	Color UV Resistant Paint
Mechanical Dimensions	Ø285 x 100 mm
Operating Temperature Range	-40°C / + 70°C
Operating Humidity Range	0% - 100% Relative Humidity
High Mechanical Resistance	WL9 (EN 12899)



#### **RAILWAY SIGNAL LAMPS**





SINCAN FACTORY Ahi Evran Mahallesi Oğuz Caddesi No: 30/1 ASO 1. OSB 06935 Sincan ANKARA / TURKEY



TEMELLİ FACTORY ASO 2. OSB Eskişehir Yolu 42.km 2017. Cad 06935 Sincan ANKARA / TÜRKİYE



PROJECT OFFICE Tepe Prime Eskişehir Yolu 9. km No:266 B Blok, Kat 14, No: 106-107 06800 ANKARA / TÜRKİYE



ELECTRONICAL R&D OFFICE ODTÜ Bilişim ve Inovasyon merkezi Mustafa Kemal Mahallesi, C Blok, Kat 1 06510 Çankaya/Ankara/ TÜRKİYE



ORTANA ME FZE P.O.16111 RAS AL KHAIMAH UNITED ARAB EMIRATES



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