



→ Full Signal Heads

LED Traffic Equipment

Traffic Control



ALTON RAY Co.

www.altonray.com

LED Traffic Signal

Excellent Appearance & Visibility



LED full signal heads is a new product by Alton Ray Co. which combines high visibility, low power consumption low heat and long life with much less need of maintenance that is now available for mass production.

The new energy-saving technology uses advanced LEDs to optimize the indicator performance. Incandescent bulb converts only 20% of energy into visible light whereas in LED technology nearly 100% of energy converts.

Cool surface and special design makes it more durable in abominable climate such as continuous rain, sunshine, dust and etc. Standard design makes full heads compatible with most of commercial controllers.

The brilliant LED light avoids the dreaded phantom light (sunshine reflection in halogen lamps that causes less visibility). Also a special lens is used to gain the highest phantom class specified by EN 12368.

Always stay with you

Product information:

Model	TS2-GA	TS2-RA	TS2-YA	TS3-GA	TS3-RA	TS3-YA
Size(mm)	200	200	200	300	300	300
Color	Green	Red	Yellow	Green	Red	Yellow
Wavelength (nm)	500	629	589	500	626	589
Intensity (cm)	215	165	410	475	365	910
Degree of IP	66	66	66	66	66	66
Operation Temperature Range	-44 to 75 C	-44 to 75 C	-44 to 75 C	-44 to 75 C	-44 to 75 C	-44 to 75 C
Relative humidity	20% to 95%	20% to 95%	20% to 95%	20% to 95%	20% to 95%	20% to 95%
Lens & shell Material	Anti UV Polycarbonate	Anti UV Polycarbonate	Anti UV Polycarbonate	Anti UV Polycarbonate	Anti UV Polycarbonate	Anti UV Polycarbonate

Electrical Characteristics:

Model	TS2-GA	TS2-RA	TS2-YA	TS3-GA	TS3-RA	TS3-YA
Voltage (AC)	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz
Power (w)	6	5	8	10	9	12
Turn on/off Time	<80 msec	<80 msec	<80 msec	<80 msec	<80 msec	<80 msec
Voltage turn off (VTO)	135 V	135 V	135 V	135 V	135 V	135 V
Power factor(PF)	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%



Features, Benefits and values

- Good visibility
- Energy savings compared with 230 V/ 100 W lamp (approx. -90 %)
- Long life
- Sun phantom protection
- Automatically adjustable light intensity
- Moisture and dust resistant
- Available in the signal colors red, amber, green and white
- Design to conform to applicable ITE specifications

Mechanical outline



Expanded view



Alton Ray Co.
No. 14 - Naderi St.-Tohid Av.
Tehran-Iran

Tel: +98 -21 66 93 49 00
+98 -21 66 56 90 03
+98 -21 66 56 90 04
+98 -21 66 92 98 68
+98 -21 66 90 09 91
+98 -21 66 91 88 42
+98 -21 66 92 63 24
Fax: +98 -21 66 42 21 24

www.altonray.com email.info@altonray.com