



## LED Colour Light Signal

### Benefits

- > Network Rail Product Acceptance No  
PA05 / 01515 Long Range Module  
PA05 / 02706 Medium Range Module  
PA05 / 01873 Housing
- > Compliant with Network Rail Line Specification  
RT/E/S/10062 Issue 1<sup>st</sup> August 1999
- > Unique optical arrangement that reduces the  
possibility of a signal phantom
- > Hinged assembly to enable easy cleaning and  
maintenance from a place of safety
- > Increased infrastructure reliability and staff  
safety
- > LED light sources give a long and predictable  
service life
- > Constant light output throughout the life of the  
signal
- > Compatible with existing SSI and RRI installations
- > Nominal supply voltage of 110Vac / 120Vdc
- > Unaffected by variations in supply voltage
- > Overall size of signal is reduced allowing  
installation into restricted areas
- > Any aspect configuration can be achieved from  
the range of modules
- > LED modules are sealed to IP65
- > lamp filament changeover relay eliminated

**Compliances**

Railway Group Standards GK/RT0031, GK/RT0037  
 Network Rail Line Specification RT/E/S 10062

**Approvals**

Unrestricted Network Rail Certificate Nos:  
 Long Range Colour Light Signal Module PA05/01515  
 Medium Range Colour Light Signal Module PA05/02706  
 Housing PA05/01873

**Key Specifications**

Operating Temperature Range - 25°C to + 40°C  
 Nominal Operating Voltage 110Vac / 120Vdc  
 Operating Voltage Range Max 121Vac Min 88Vac  
 Nominal Operating Current (ac) 300mA @ 110Vac  
 Operating dc Voltage Range Max 145Vdc Min 88Vdc

**Current Proving**

Relay Based Interlocking BR941A  
 Solid State Interlocking (SSI) Return Current Path 1 or 4

**Performance Categories**

Long Range Category 1 (RT/E/S 10062) ± 3°  
 Medium Range Category 4 ± 10°  
 Medium Range Category 2 ± 12.5°

Constant light output and colour throughout life, voltage ranges and temperature ranges

**Light Output Colour**

Red BS1376 Class C (Restricted)  
 Yellow BS1376 Class B  
 Green BS1376 Class C

Estimated Service Life Approx 8 years  
 (depending upon ambient temperature and duty cycle of the signal)

Aspect Configurations 1, 2, 3 or 4  
 Max number of aspects per aperture 3  
 Flashing Aspects All aspects are capable of being flashed under control of the interlocking

Sealing of LED modules IP65

**Weight**

4 Aspect Signal (signal with 2 modules) 43kg  
 3 Aspect Tall Signal (signal with 1 module) 33kg  
 3 Aspect Short Signal (signal with 1 module) 26kg

For more information see "LED Signalling Handbook"

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