

# NSW Single Light Signalling

The NSW ARTC single light signalling system is similar to other Australian systems but differs in detail. In general it is used throughout the non-metropolitan signalled areas of NSW

## STANDARD MAINLINE SIGNALS

NSW single light signalling mainline signal displays consist of one indication above a marker lamp. The indication potentially displays one of three colours– red, yellow, or green. Two styles of indication exist – incandescent and LED. Both have individual lamps for each colour. Colour aspects are mounted Green over Yellow over Red. If the particular track configuration does not require either the Green or Yellow indication then that lamp is not fitted, although more recent installations, 3 position back plates are erected with a blanking piece in the unused position.

Distant signals are normally only fitted with Yellow and Green aspects.

Signal numbers are displayed as white numbers on a black plate, and controlled signal numbers are prefixed by a two letter code defining the relevant control centre.

## DEFINITION AS ABSOLUTE OR PERMISSIVE (“Automatic”)

The function as an absolute signal is identified by the marker lamp being mounted directly below the upper head, whilst the function as a Permissive/Automatic signal is identified by the marker lamp head being mounted offset to the right below the upper head. Marker lamps are usually red but are only illuminated when the red aspect is showing. Distant signals are fitted with offset yellow markers but these are only illuminated in the event of a main indication failure.

## LOW SPEED INDICATIONS on Mainline Absolute Signals:

A single small green lamp is mounted on an Absolute signal below the marker. It is normally off, and is lit in combination with two red lights above to indicate “Proceed at low speed”.

## SHUNT INDICATIONS on Mainline Absolute Signals:

A single small YELLOW lamp is mounted on an Absolute signal below the marker (or below the Low Speed lamp if that is fitted as well). It is normally off, and is lit in combination with two red lights above to indicate “Shunt forward”.

Where there is more than one road that can be selected as a destination for a Low Speed or Shunt movement a miniature route indicator is mounted immediately above the appropriate subsidiary signal. Each 1 or 2 character display has its own boxed compartment which are arrayed in horizontal pairs. For more than 2 indications, boxed pairs are stacked one above the other.

## INDIVIDUAL SHUNT SIGNALS:

Ground level shunt signals show 2 red lamps or an yellow lamp in one of two forms. The triangular form has the yellow mounted above the two horizontal reds, whilst the vertical form presents all the lamps vertically – red over yellow over red.

## TURNOUT INDICATORS

Units housing 3 small diagonally displayed yellow lamps mounted below the upper head. The red marker lamp is incorporated in this unit above the diagonal yellows.

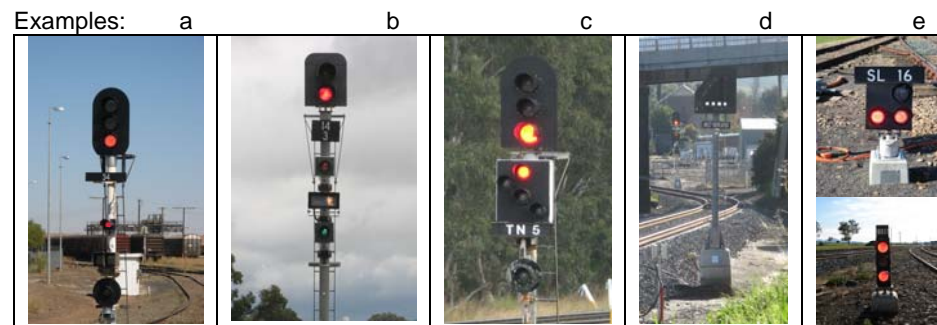
## REPEATERS

Main line repeaters display a vertical or horizontal white line of lamps.

Low speed repeaters display a pair of small white lamps – horizontal or diagonal.

## POSSIBLE DISPLAYS (Mainline)

Indication (A over B)	Definition	Significance
Red / Red marker	STOP	
Yellow	Caution	Block ahead is clear but next signal may be at STOP.
Pulsing Yellow	Medium	Block ahead is clear and following signal is at Caution or Caution Turnout
Green	Clear	Block ahead is clear and next signal is at a Proceed aspect.
Red / Yellow diagonal	Caution Turnout	Turnout – next signal may be at STOP
Red / Pulsing yellow diagonal	Medium Turnout	Turnout – next signal is at Caution or Caution Turnout
Red / Red marker / Small Green	Low speed	Proceed at low speed. Next signal at STOP. Occupied immediately beyond.
Red / Red marker / Small Yellow	Shunt	Shunt forward . Block may be obstructed.
White vertical bar	Clear	Repeated signal at proceed
White horizontal bar	Proceed	Repeated signal at STOP
White diagonal	Caution	Repeated signal at proceed low speed



a. 3 aspect / marker / shunt with 2 window indicator    b. 2 aspect (g/r)/ marker / Low Speed / Indicator (Loop)  
 c. 3 aspect / turnout indicator / shunt    d. Repeater  
 e1. Shunting (y/2r)    e2. Shunting (r/y/r)

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