

AY Signal

AY signals are used as block protection or at marshalling yards, and function as either main signal, distant signal or shunt signal.

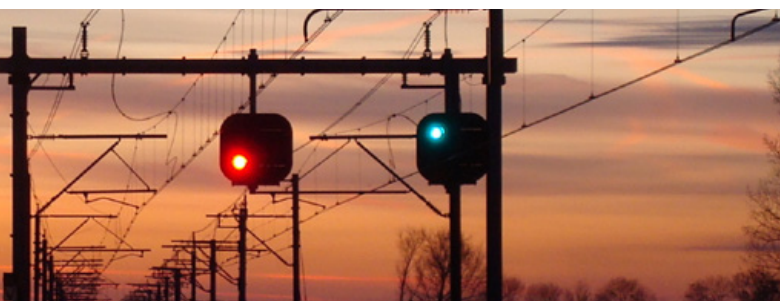


PRODUCT BENEFITS

- Most commonly used main signal and distant signal on Dutch railways
- Very reliable and energy efficient due to VIRLU210 LED units
- Signals are almost maintenance-free despite high degree of availability
- Good visibility under all the most common weather conditions in the Netherlands

MAIN SIGNALS AND DISTANT SIGNALS

Most frequently used main signals and distant signals on Dutch railways representing the signal aspect as per current rail traffic regulations. Reliable with a long service life, high visibility and low-maintenance. Main signal consists of 3 aspects coloured red, yellow and green. Distant signal consists of 2 aspects coloured yellow and green. The 'release shunting' signal can use a 4 aspect signal that adds a white aspect.



AY signals are mounted on posts and gantries. Post-mounted signals are supplied including platform and ladder, but can also be supplied in combination with a Matrix Signal Generator (MSGw2).

VRS can customize the product based on desired power supply voltages or currents. The shape, light colours and light brightness can also be tailored to your specific customer requirements.

Technical specifications

Areas of application	1500V and 25kV zone
Supply voltage	110V/80V 75Hz (day/night)
Isolation voltage	3kV (1 minute)
Luminous intensity	220cd (+30% / -15%)
Luminous intensity distribution	wide beam as per EN12368
Light rise and fall time	< 20ms
Phantom ratio	> 5 as per EN12368 class 2
Climate test	as per IEC 60068-2-38, additional till -25°C
Operating temperature	-25°C - +65°C
Storage temperature	-30°C - +80°C
Shock and bump test	as per IEC 571
EMC compatibility	as per EN 50121-4
Impact resistance	IR3 as per EN12368
Ingress protection	IP54 as per EN60529 tests 13 and 14
Protection class	IPXX
Service life	15 years
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Protection class	IPXX
Service life	15 years

Colour of light as per CIE S 004/E-2001

Red	Red Light signal colours Class A with restriction $y \leq 0.295$
Yellow	Yellow Light signal colours
Green	Green Light signal colours Class A
White	White Light Signal Colours, Class A, with restriction $x \leq 0.420$

VIRLU 210

Capacity	100 Watt
Voltage:	110 ± 10% V AC
Supply voltage, dimmed:	80 ± 10% V AC
Frequency:	50 and 75 Hz ± 4%
EMC compliance	as per ENV 50121-4 + RLN00007 version 3
MTBF	> 10,000,000 hours (calculated as per IEC 1709/ SN29500)



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