



Yutrafic Actis Traffic Signals

Product Datasheet

Overview

The all-new Yutrafic Actis LED traffic signal incorporates modern design features to deliver superior performance, with a very low power consumption and reduced carbon footprint. Actis is a modular system that provides a complete and attractive traffic signal range, including a variety of different pole mounting options. Actis sets the new standard in traffic signals design, performance and sustainability, and meets the requirements of any traffic signal installation.

Solution features

- New optical system utilises central light source technology to optimise visibility and efficiency
- Range of power variants support existing and new installations; LV LED (230V), ELV (48V), ELV Low Power (48V) and Plus+ (48V)
- Modular design includes a 3-aspect uni-body and single aspect body which can be combined into any configuration from 1 to 5-in-line
- Two pole mounting options include a new pintle mount system offering a range of benefits including easier installation and reduced working at height
- Signal head doors open from either side providing unrivalled ease of access
- Accommodates a wide range of hoods and backing boards, with hoods and backing boards also compatible with Helios
- Integrated air quality sensor option
- Backward compatibility with Helios; Actis doors fit on the existing Helios bodies, and Actis aspects utilise the same lamp monitoring profiles as Helios LED signals
- Tool free replaceable aspect hatch improves ease of maintenance

Solution benefits

- Very low power consumption (as low as 1W for Plus+ variants) offering reduced energy costs and lower carbon footprint
- Improved safety on-street with a significant reduction in weight and reduced working at height installation, using the pintle mount system
- Robust, vandal-resistant construction
- Highly sustainable with a large use of recycled materials in the construction, and removal of bonded parts making the product fully recyclable at end of life
- Fully lamp monitorable from Yunex Traffic signal controllers
- Made in the UK

Technical Specification

Standards	Tested and certified to - Optical performance as per EN12368 Traffic Control Equipment – Signal Heads - Electromagnetic Compatibility as per EN50293 Road Traffic Signal Systems - Environmental performance and safety as per EN50556 Road Traffic Signal Systems
Product Conformance	- CE - UKCA
Optical Performance	With reference to EN12368 for 200mm signals Luminous intensity: Performance Level 3 Class 2 Luminous intensity distribution: Type M Luminous Uniformity: >1:10 Phantom class: 5 Symbol class: S1 Impact resistance: IR2 Ingress protection: IP55 Environmental class: A
Power Variants	- LV (Low Voltage 230V) - ELV (Extra Low Voltage 48V) - ELV LP (Extra Low Voltage 48V Low Power) - Plus+
Optic Sizes	Standard optic: 200mm Regulatory sign: 290mm
Modular construction options	- Fully modular options to create 1, 2, 3, 4 and 5 in line signals with additional side mount aspects 3-aspect unibody with single door (3 × 200mm aspects) - Single aspect body with 200mm or 290mm regulatory sign door - Will accommodate a wide range of louvered hoods - Backing boards available for all construction options
LV Signals	230V (LV) Central Light Source LED with automatic LED failure detection, signal dimming, integrated lamp monitoring - Compatible with Yunex LV LED controllers and LED retrofit solutions 230V LED regulatory signs
ELV Signals	48V (ELV) Central Light Source with automatic LED failure detection, signal dimming, integrated lamp monitoring - Compatible with Yunex ST750ELV, ST900ELV and ST950ELV 48V LED regulatory signs
ELV LP Signals	48V (ELV) Central Light Source with automatic LED failure detection, signal dimming, integrated lamp monitoring - Compatible with Yunex ST950ELV with minimum V30 Firmware 48V LED regulatory signs
Plus+ Signals	- ELV supply compatible with Plus+ - Signal dimming controlled electronically from ST950 Plus+ controller - Fully integrated lamp monitoring
Mask inserts	Mask inserts are available for; arrow, standing figure, walking figure, cycle, equestrian and bus
Regulatory sign inserts	Regulatory door signs are available for all approved sign types

Technical Specification

Power consumption of LED Red, Amber and Green aspects	• Actis LV Aspects: Bright (230V) 11W, Dim (160V) 4.5W • Actis ELV Aspects: Bright (48V) 10W, Dim (27.5V) 3W • Actis ELV LP Aspects: Bright (48V) 5W, Dim (27.5V) 1.5W • Actis Plus+ Aspects: Bright 3W, Dim 1W																		
Power consumption of signs	• Actis LV LED Regulatory Sign: (230V) 10W • Actis ELV LED Regulatory Sign: (48V) 8W • Actis Plus+ Regulatory: Sign 5W • Actis PCaTS: 14W																		
Weights	Signals • 3-aspect 200mm signal head: 7.6kg • 3-aspect 200mm Plus+ signal head: 8.0kg • 2-aspect 200mm signal head: 6.3kg • Regulatory sign: 4.0kg • Single 200mm RAG aspect: 2.25kg Pintle Brackets (1-set) • 2-in-line standard: 1.2kg • 2-in-line handed: 1.8kg • 3 & 4-in-line standard: 0.5kg • 3 & 4-in-line handed: 1.2kg Adjustable Brackets (1-set) • 1-in-line: 1.2kg • 2-in-line: 1.7kg • 3-in-line: 1.2kg • 4-in-line: 2.2kg • 5-in-line: 3.8kg • 2-in-line (extended): 1.3kg • 3-in-line (extended): 1.7kg • 4-in-line (extended): 2.7kg																		
Dimensions (with backing boards)	<table><tr><td>• Single aspect</td><td>H: 450mm</td><td>W: 468mm</td></tr><tr><td>• 2 in-line</td><td>H: 785mm</td><td>W: 468mm</td></tr><tr><td>• 3 in-line</td><td>H: 1116mm</td><td>W: 468mm</td></tr><tr><td>• 4 in-line</td><td>H: 1450mm</td><td>W: 468mm</td></tr><tr><td>• 3 in-line with one side aspect</td><td>H: 1116mm</td><td>W: 841mm</td></tr><tr><td>• 3 in-line with two side aspects</td><td>H: 1116mm</td><td>W: 1214mm</td></tr></table>	• Single aspect	H: 450mm	W: 468mm	• 2 in-line	H: 785mm	W: 468mm	• 3 in-line	H: 1116mm	W: 468mm	• 4 in-line	H: 1450mm	W: 468mm	• 3 in-line with one side aspect	H: 1116mm	W: 841mm	• 3 in-line with two side aspects	H: 1116mm	W: 1214mm
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Design Dimensions	Distance from pole to front of hood (without rotation) • Using adjustable bracket: 543mm • Using extended adjustable bracket: 613mm																		
Product Materials	• Actis signal bodies, doors, backing boards, hoods: Recycled polypropylene • Actis aspect bodies and rear hatch: Recycled polycarbonate • Actis lenses: Polycarbonate • Pintle signal bracket assembly: Glass reinforced nylon • Adjustable bracket signal assembly: Glass reinforced nylon • Pintle pole brackets: 316 stainless steel • Pintle pole brackets (black): 316 stainless steel with black powder paint coat • Adjustable pole brackets: S275JR galvanised mild steel with black power paint coat																		

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End of life recycling guidance	• Recycled and non-recycled polypropylene parts can be widely recycled • Recycled and non-recycled polycarbonate parts can be widely recycled • Glass reinforced nylon parts can be recycled • Stainless steel (unpainted) parts can be widely recycled • Stainless steel (painted) parts can be widely recycled following paint removal • Mild steel (painted) parts can be widely recycled following paint removal • Electronics parts including cabling are widely recycled
Bracket options	• Pintle • Adjustable • Use standard pole mounting positions
Horizontal adjustment	• Horizontal rotation (to left and right) • Pintle bracket standard: 50° • Pintle bracket handed: 90° • Adjustable bracket: 86° • Adjustable extended bracket: 90°
Vertical adjustment	• Vertical adjustment is not usually required due to the optimised lens system, however Actis can be adjusted $\pm 3^\circ$ using the adjustable bracket mounting system
Handbook	• For further details refer to the Yutrafic Actis Handbook 667/HB/60000/000

Elexon Code

Description		Charge Code
3-Aspect	Actis ELV LP Signal Head: 3-Aspect (Red/Amber/Green)	79 4000 6000 100
	Actis Plus+ Signal Head: 3-Aspect (Red/Amber/Green)	79 4000 7002 100
	Actis ELV Signal Head: 3-Aspect (Red/Amber/Green)	79 4001 2001 100
	Actis LV Signal Head: 3-Aspect (Red/Amber/Green)	79 4001 3002 100
2-Aspect	Actis ELV LP Signal Head: 2-Aspect (Red/Green)	79 4200 5001 100
	Actis Plus+ Signal Head: 2-Aspect (Red/Green)	79 4200 6000 100
	Actis ELV Signal Head: 2-Aspect (Red/Green)	79 4201 0003 100
	Actis LV Signal Head: 2-Aspect (Red/Green)	79 4201 1000 100
1-Aspect	Actis Plus+ Signal Head: 1-Aspect (Green)	79 4400 3000 100
	Actis ELV LP Signal Head: 1-Aspect (Green)	79 4400 5000 100
	Actis ELV Signal Head: 1-Aspect (Green)	79 4401 0003 100
	Actis LV Signal Head: 1-Aspect (Green)	79 4401 1000 100
Signs	Actis LV LED Regulatory Sign	40 0008 0020 100
	Actis ELV LED Regulatory Sign	40 0010 0012 100
	Actis Plus+ LED Regulatory Sign	79 1700 5000 100
	Actis PCaTS	79 6001 2001 100

For complete information on Elexon codes please refer to Yunex document 667/RE/29050/000 or the Elexon code website