



Silux 1.40 signal heads

Advanced LED technology for visual brilliance

www.siemens.com/mobility

SIEMENS

Enhanced visibility under all light conditions, maximum reliability and safety – with minimized operation costs. What more could one ask for?

With Silux® 1.40 LED signal heads, local authorities stand to benefit in every respect as they will save costs while improving traffic safety at the same time. Compared to conventional signal lamps, LED signal heads need up to 90% less energy and have a much longer service life, ensuring a high level of operational reliability of the traffic signal installations. In short: a boon for every city treasurer.

But what is more, Silux 1.40 signal heads boast truly brilliant optical properties. They totally eliminate the dangerous phantom light effect and ensure perfect signal visibility even in case of low sun position – for significantly improved traffic safety. The impressive list of advantages of Silux 1.40 includes also a high level of electromagnetic immunity and optimum interaction with Siemens controllers.

Cost-saving conservation measure

In a German town with 43,000 inhabitants, Siemens set up 25 new LED-based traffic light installations. This now saves the town €66,000 in energy costs every year – and makes a considerable contribution to reducing its carbon footprint. If all intersections in Germany were equipped with the new technology, the power demand of the signal heads would be cut from today's 200 megawatts to a mere 16 megawatts, a reduction corresponding to the entire output of a small power station. An appreciable contribution to climate protection.





Symbol masks

Silux 1.40 LED signal heads can be equipped with various removable symbol inserts, which are realized as masks and can be fitted into the detachable front lens. Hence rotating or exchanging the symbols can be done right on site. Upon request, non-standard symbols are available at short notice.

Safety features

Every Silux 1.40 LED light source is equipped with an electronic monitoring circuit designed for optimum interaction with Siemens controllers. The circuit permanently monitors and checks the power and voltage values of the LEDs. If the actual values are below or above the pre-set thresholds, the input current is interrupted immediately. The brilliant LED optics of the Silux signal heads prevent the occurrence of colored phantom light and achieve the highest phantom class – class 5 – for all colors and sizes.

Compatibility with controllers

Silux 1.40 signal heads are designed for perfect compatibility with all 40-V versions of the Sitraffic C840V/C940V/C940ES family of traffic controllers from Siemens. They can also be integrated in PLUS configurations featuring the Sitraffic C840VP/C940VP controllers.

Compatibility with housings

Silux 1.40 signal heads are integrated in the Siemens signal head housing door, ensuring compatibility with all Siemens signal head housings and enabling the easy and cost-effective upgrading of existing signal head installations.



Technical data

Optical properties, in conformity with DIN EN 12368

Optical values according to EN 12368/DIN 67527-1		Silux 1.40/size 200 mm	Silux 1.40/size 300 mm
Luminous intensity distribution – class		B2/2	B3/2
Axial luminous intensity – typical value	red	> 200 cd	> 400 cd
	amber	> 200 cd	> 400 cd
	green	> 200 cd	> 400 cd
Radiation characteristic		W	N
Uniformity of luminance		1:10	1:15
Color coordinates according to DIN EN 12368	red	613–631 nm	613–631 nm
	amber	585–597 nm	585–597 nm
	green	489–508 nm	489–508 nm
Phantom class		5	5
Symbol class		S1	S1

Electrical and mechanical properties

Operating voltage	40 V/50 Hz	Degree of protection	IP 65	
Power consumption	7 W for all colors	Impact resistance	IR 3	
Power factor	> 0.9	Ambient temperature	–40 °C to +60 °C	
EMC	according to EN 50293	Relative humidity	20%–95%	
Lenses	system-specific colorless diffusing lenses	Housing colors	black	RAL 9005
			fir green	RAL 6009
			pebble gray	RAL 7032
Standard versions of symbols	as symbol masks			

Siemens AG
© Siemens AG 2010
All rights reserved

For further information please contact:

Siemens AG
Industry Sector
Mobility Division
Complete Transportation
Intelligent Traffic Systems
Hofmannstrasse 51
81359 Munich
Germany

www.siemens.com/mobility

www.siemens.com/traffic

The information contained in this brochure comprises only general descriptions and performance features of products and systems, which may not always apply exactly as described in every realized application, or which may be subject to change due to further development of the products. Performance features are only to be considered binding if they have been explicitly agreed in the contract.

Order No. E10003-A800-A106-V1-7600
Printed in Germany
Dispo No. 22300 K No. 7596
DEI 25/26024 313672 02103.
Subject to change without prior notice