

OPS

A CLEAR EDGE FOR YOUR LOGISTICS

Track and trace systems

SICK
Sensor Intelligence.

Kreski

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Więcej informacji: www.kreski.pl

TECHNOLOGY THAT GROWS WITH YOU – FOR THE LATEST LOGISTICS REQUIREMENTS

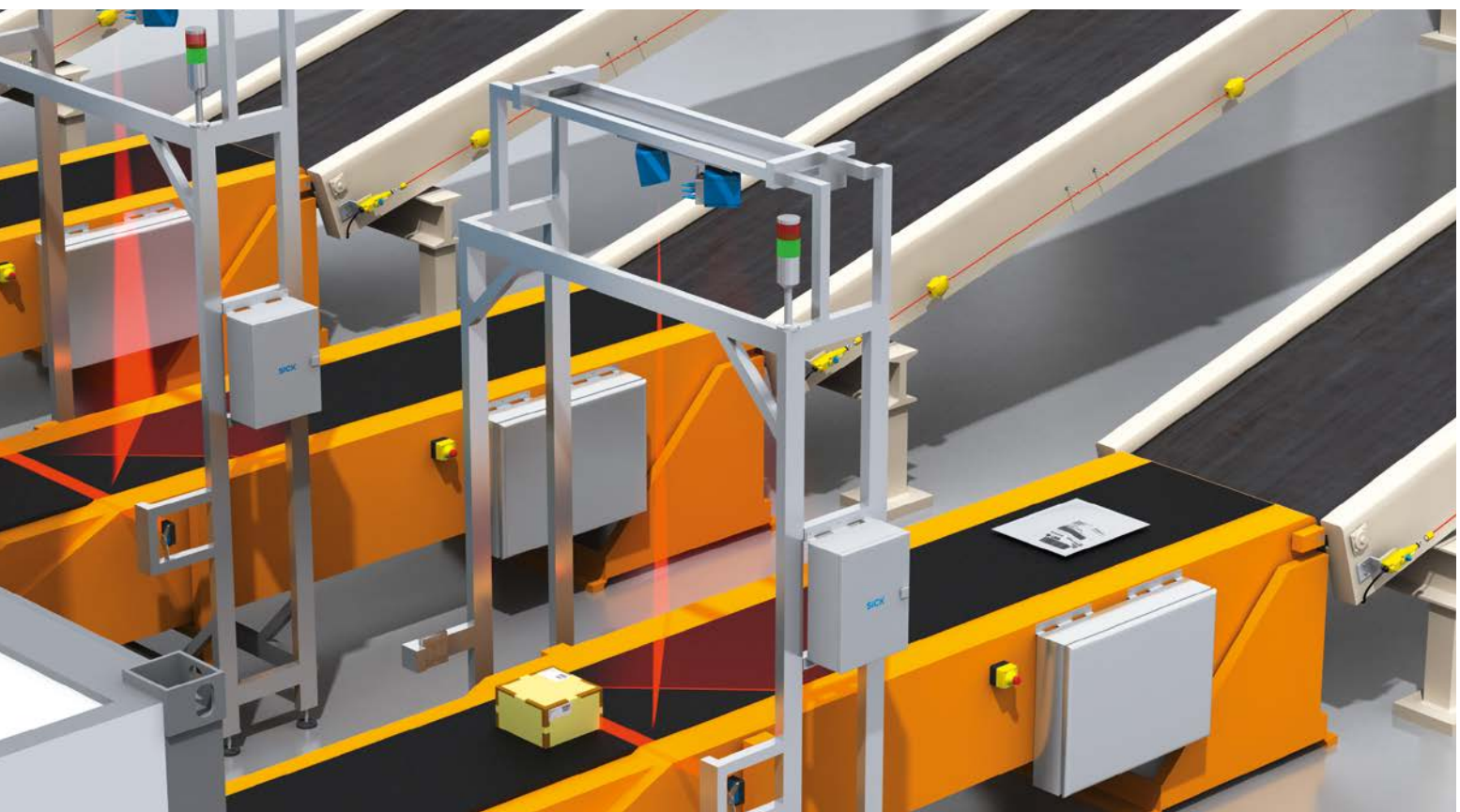
The OPS (omni-portal system) track and trace systems from SICK optimize logistics processes all around the world a thousand times over. The modular bar code reading system can adapt to your application and to the latest logistics requirements. This technologically optimized complete system for identifying bar and reading codes on goods and products is a flexible high-end solution – and always features the latest generation of scanners. Using individual scanners makes it possible to optimize the configuration for your application.

Complete solution in every respect

SICK is one of the only manufacturers to offer a complete system solution: from the electronics to the evaluation software, commissioning, and worldwide service. We can also support you with project planning and the engineering of your system if you wish.

Systematically well thought out

We can provide you with software and hardware from a single source, plus engineering support as an extra service. All project workflows are certified in accordance with ISO 9001. Your project will be looked after by a member of staff who will be available for the entire duration of the project.





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Benefits your customers will thank you for

The modular concept makes it possible to optimize the configuration for your application. Furthermore, storable parameters in the cloning plug the quick-clamp mechanism make it easy to replace individual devices. Thanks to the SMART code detection technology,

the system is even able to detect bar codes that are dirty or difficult to read. The use of high-end laser scanners with real-time auto-focus function, without additional components to detect the object distance, ensures outstanding performance, high system throughput, and cost-effectiveness.

Various bus connection modules can

also be integrated for communication and integration into an automation network both now and in the future.



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Product description

The modular design concept of the OPS (omni portal system) track and trace system allows you to make customizations to suit your omnidirectional reading requirements. The system features high-performance laser scanners and a real-time auto-focus function with a

high depth of field and narrow modular widths. SMART+ code detection technology delivers a high degree of operational reliability. The system includes a tracking module to accurately assign the bar code to the correct parcel when the gaps between parcels are very small.

At a glance

- Maximum read rates and encoder performance thanks SMART+ decoder
- Integrated interface for SICK diagnostics software
- Can be connected to all other SICK system solutions for automated identification (= modular system approach)
- 6-side read capability
- Start-stop or tracking operation

Your benefits

- Flexible high-end solution
- Complete, turnkey system
- Cables, cloning plugs, and brackets for a simple and complete omni system
- Low operating expenditure costs thanks to ultimate MTBF (mean time between failures)



Additional information

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→ www.sick.com/OPS

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.



Detailed technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

General notes

| | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|-----------------------|---|--|---|
| Items supplied | Sensors Controller unit Mounting material Frame | CLV650 bar code scanner System-dependent for line scanner or line scanner with oscillating mirror (2 x) Double mounting bracket CDM420-0004 connection module Mounting materials Trigger photoelectric sensor Serial configuration cable Connection cable for bar code scanner to connection module (2 x) MicroSD card, already in scanner (2 x) | CLV69x bar code scanner System-dependent for line scanner or line scanner with oscillating mirror (2 x) Cloning plug for CLV69x bar code scanner (2 x) Bracket, system-dependent for line scanner or line scanner with oscillating mirror CDM420-0007 connection module Connection cable for bar code scanner to connection module (2 x) |
| Usage | Retail and warehousing Courier, express, parcel and postal | | |

Features

| | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|---------------------------|--|---|--|
| Controller | MSC800 | – | |
| Covered conveyor width | Unlimited, typically up to 1,600 mm | 500 mm | 800 mm / 500 mm (depending on type) |
| Focus | Auto focus | | |
| Laser class | 2 (IEC 60825-1 (2007-3)) 1 (IEC 60825-1 (2007-6)) | 2 (EN 60825-1 (A2:2001-03), IEC 60825-1: 2007-03, Ed. 2.0) | 2 (IEC 60825-1 (2007-3)) 1 (IEC 60825-1 (2007-6)) |
| Heating | Optional | | |
| MTBF | 100,000 h | 40,000 h | 100,000 h |
| MTTR | 5 min | | |
| Applications | Simple OMNI applications Sorting processes Revenue recovery Goods receipt | | |
| Field of application | Indoor | | |
| Scanner design | Application-specific | Line scanner / Line scanner with oscillating mirror (depending on type) | |
| Conveyor type | Belt strap Tray sorter Roller conveyor Crossbelt Pallet | | |
| Number of main components | Laser scanner: 1 ... 32 Control unit: 1 | Laser scanner: 2 | |



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Performance

| | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|--------------------------------------|--|-----------------|-----------------|
| Transport speed | 0.1 m/s ... 2.5 m/s, Depending on code height | | |
| Minimum object distance | 50 mm | | |
| Number of codes per reading interval | Max. 300, depending on conveyor speed | 1 ... 50 | |
| Number of codes per scan | 1 ... 20, Standard decoder 1 ... 6, SMART decoder | | |
| 1D code types | All current code types | – | |

Interfaces

| | | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|------------------------------|------------------------|--|---|-----------------|
| Serial (RS-232, RS-422/-485) | | ✔ (4) | ✔ | |
| | Function | Host AUX | | |
| | Data transmission rate | 300 Baud ... 500 kBaud | Host: 300 baud ... 500 kBaud, AUX: 57.6 kBaud fixed | |
| Ethernet | | ✔ (3) | ✔, Depending on the cloning plug used | |
| | Function | – | Host AUX | |
| | Data transmission rate | 10 MBit/s / 100 MBit/s | 10/100 MBit/s | |
| | Protocol | TCP/IP FTP EtherNet/IP Half/full-duplex | TCP/IP | |
| CAN bus | | ✔ (2) | | |
| | Function | SICK CAN sensor network | SICK CAN sensor network (master/slave) | |
| | Data transmission rate | – | 20 kbit/s ... 1 Mbit/s | |
| | Protocol | CSN (SICK CAN Sensor Network) | | |
| PROFIBUS DP | | ✔ | | |
| | Data transmission rate | 12 MBaud | – | |
| Digital switching inputs | | ✔ (14), PNP, configurable, short-circuit proof | | |
| Digital outputs | | ✔ (4), potential-free | | |
| Relay outputs | | ✔ (2) | | |
| | Electrical connection | Cable gland | – | |
| USB | | ✔ | | |
| | Electrical connection | Micro USB female connector, type B | – | |
| Optical indicators | | 6, LEDs, Ready, Result, laser, Data, CAN, LNK TX, bar graph display of percentage read rates (10 LEDs) | | |

Mechanics/electronics

| | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|--------------------------------|--|--------------------------------|-----------------|
| Dimensions, system (L x W x H) | 1,100 mm x 1,280 mm x 1,745 mm (Minimum, maximum dimensions depending on reading field width and reading field height) | 1,100 mm x 1,280 mm x 1,745 mm | |
| Connection modules | CDF600 for PROFINET | CDM420-0004 | CDM420-0007 |
| Frame | Standard Customized | | |

Ambient data

| | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|-------------------------------|--|-----------------|--|
| Ambient temperature operation | 0 °C ... +40 °C -35 °C ... +35 °C, With heating | 0 °C ... +40 °C | 0 °C ... +40 °C -35 °C ... +35 °C, With heating |
| Ambient storage temperature | -20 °C ... +70 °C | | |

Ordering information

OPS Customized

| Sensor resolution | Scanner design | Type | Part no. |
|----------------------|----------------------|----------------|------------|
| Application-specific | Application-specific | OPS Customized | On request |

Twinhead CLV65x

| Scanner design | Type | Part no. |
|--------------------------------------|-----------------|----------|
| Line scanner | Twinhead CLV650 | 1056482 |
| Line scanner with oscillating mirror | Twinhead CLV650 | 1061634 |

Twinhead CLV69x

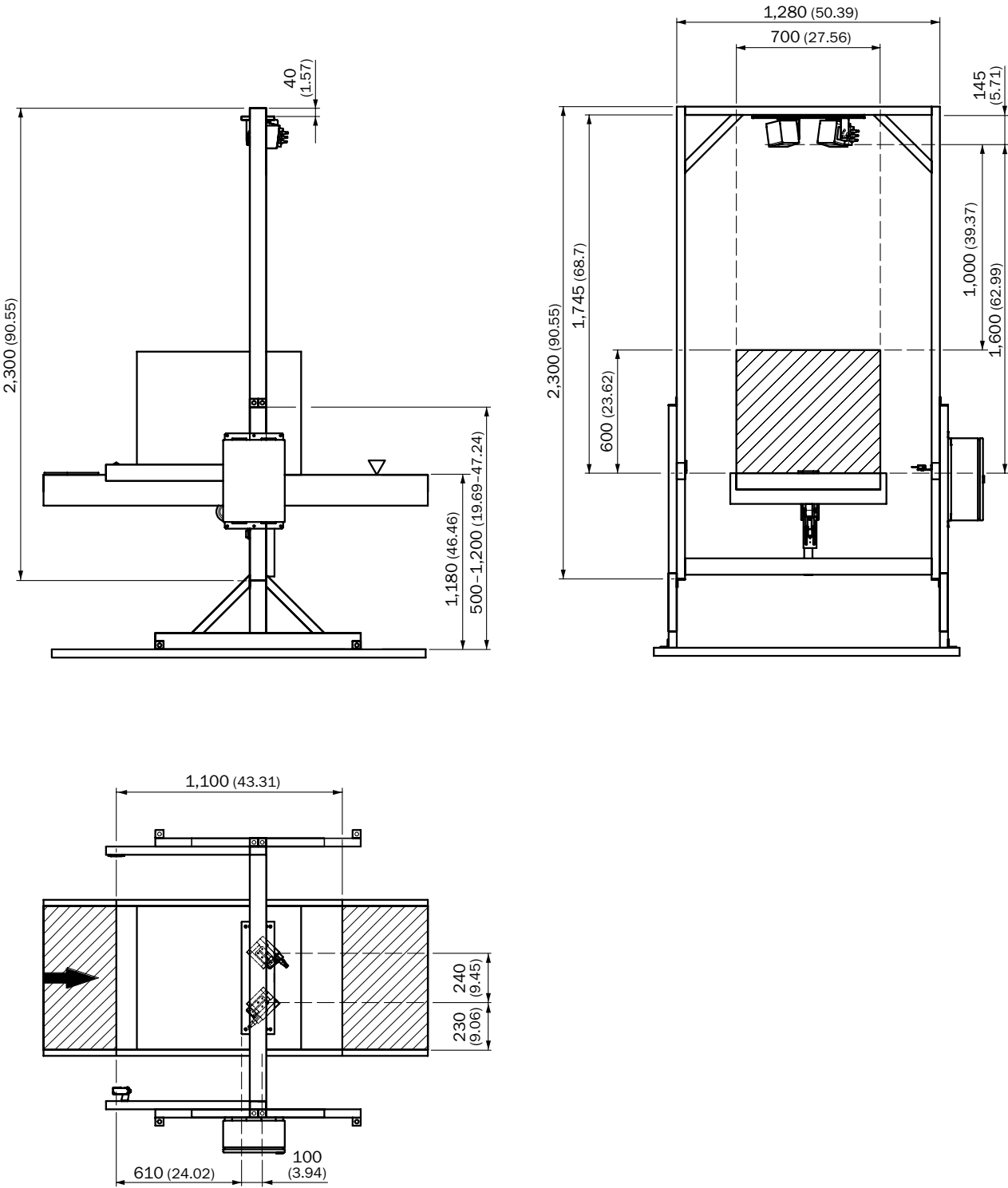
| Scanner design | Type | Part no. |
|--------------------------------------|-----------------|----------|
| Line scanner | Twinhead CLV690 | 1061479 |
| Line scanner with oscillating mirror | Twinhead CLV690 | 1061480 |
| Line scanner | Twinhead CLV691 | 1061481 |
| Line scanner with oscillating mirror | Twinhead CLV691 | 1061482 |
| Line scanner | Twinhead CLV692 | 1061483 |
| Line scanner with oscillating mirror | Twinhead CLV692 | 1061484 |



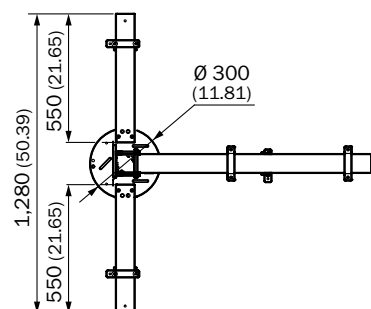
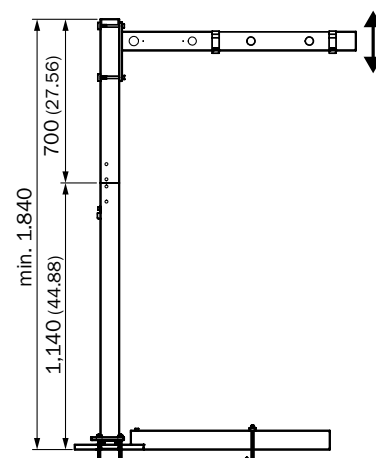
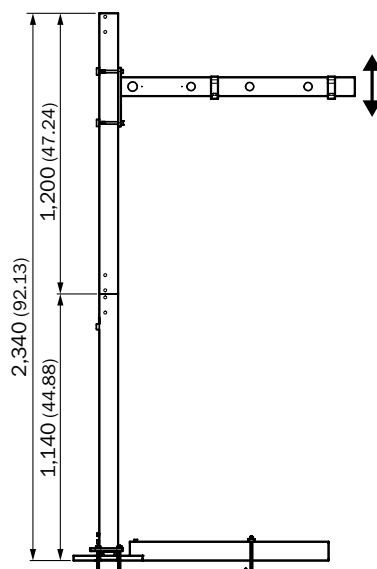
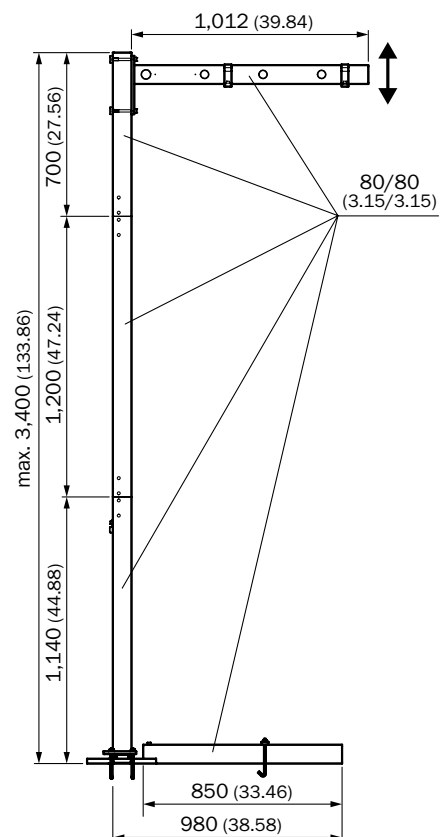
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Dimensional drawings (Dimensions in mm (inch))

OPS Customized (minimum dimensions)



Twinhead CLV65x and Twinhead CLV69x




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Accessories



Reflectors and optics

Mirror adapters



| Figure | Brief description | Type | Part no. | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|---|--|-------------|----------|----------------|-----------------|-----------------|
|  | External mirror hood (0°) for shortening the reading distance when used between two conveyors located next to each other | Mirror hood | 2074535 | ● | - | - |

Further accessories


Hardware

| Figure | Type | Part no. | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|--|----------------|----------|----------------|-----------------|-----------------|
|  | IP camera | 6048278 | ● | - | - |
|  | IP camera dome | 6055384 | ● | - | - |

Sets and kits

| Figure | Brief description | Type | Part no. | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|---|--|-----------------------------------|----------|----------------|-----------------|-----------------|
|  | DFS60B shaft encoder kit includes incremental encoder with collet and 10 m cable | DFS60B shaft encoder kit | 2087288 | ● | - | - |
|  | DFV60 measuring wheel encoder kit includes incremental encoder, mounting kit, and 10 m cable | DFV60 measuring wheel encoder kit | 2058475 | ● | - | - |

Signal and status indicators

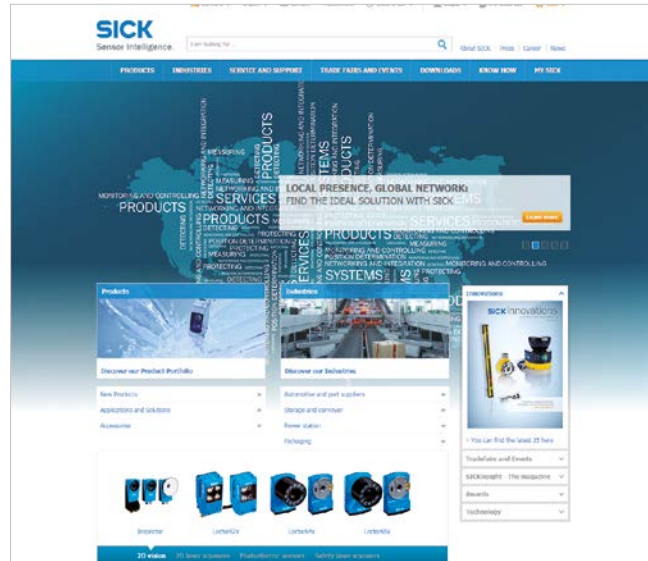
| Figure | Brief description | Type | Part no. | OPS Customized | Twinhead CLV65x | Twinhead CLV69x |
|---|--|--------------|----------|----------------|-----------------|-----------------|
|  | Tower light red, yellow, green, 24 V, incl. mounting and 10 m connection cable | Signal lamps | 2069155 | ● | - | - |



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SERVICES FOR MACHINES AND SYSTEMS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.



Consulting and design

Safe and professional



Product and system support

Reliable, fast and on-site



Verification and optimization

Safe and regularly inspected



Upgrade and retrofits

Easy, safe and economical



Training and education

Practical, focused and professional

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 7,400 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, we are always close to our customers. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in various industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services round out our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

Worldwide presence:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → www.sick.com

The logo for Kreski, featuring the word "Kreski" in a bold, italicized sans-serif font. A red horizontal line is positioned beneath the letters "Kre", and a black horizontal line is positioned beneath the letters "ski".

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