



# Lector65x System Pro

Lector65x System

TRACK AND TRACE SYSTEMS

***SENSORS***  
**INCORPORATED**

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**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
Lector65x System Pro	On request

Other models and accessories → [www.sick.de/Lector65x\\_System](http://www.sick.de/Lector65x_System)



### Detailed technical data

#### Features

<b>Sensor</b>	CMOS matrix sensor, grayscale values
<b>Sensor resolution</b>	2,048 px x 1,088 px or 2,048 px x 2,048 px
<b>Code resolution</b>	0.2 mm ... 1 mm
<b>Covered conveyor width</b>	Customized
<b>Reading distance</b>	670 mm ... 2,000 mm, Depending on code
<b>Focus</b>	Dynamic focus
<b>Focus trigger source</b>	MSC800 (MLG, VMS, VML)
<b>Scanning frequency</b>	40 Hz, With resolution of 4 megapixels
<b>Light source</b>	Lighting LEDs: white ( $\lambda = 6000 \text{ K} \pm 500 \text{ K}$ ) Feedback spot: visible green light ( $\lambda = 525 \text{ nm} \pm 15 \text{ nm}$ ) Aiming laser: visible red light ( $\lambda = 630 \text{ nm} \dots 680 \text{ nm}$ )
<b>LED class</b>	Risk group 1 (IEC 62471 (2006-07) / EN 62471 (2008-09))
<b>Laser class</b>	1M, complies with 21 CFR 1040.10 except for the tolerance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1 (2007-3))
<b>Number of main components</b>	Lector65x: 1 ... 16

#### Performance

<b>Transport speed</b>	Depending on application
<b>Minimum object distance</b>	50 mm
<b>1D code types</b>	Interleaved 2 of 5 Codabar Code 128 Code 32 Code 39 Code 93 GS1 DataBar GS1-128 / EAN 128 Pharmacode UPC / GTIN / EAN
<b>2D code types</b>	Data Matrix ECC200 GS1 Data-Matrix MaxiCode PDF417

	QR code
<b>Interfaces</b>	
<b>Ethernet</b>	✓ (2)
<b>Serial</b>	✓ (2)
<b>PROFIBUS DP</b>	✓
<b>Digital input, opto isolated, reverse polarity protected</b>	✓ (13)
<b>Digital output, PNP +24 V, 30 mA</b>	✓
<b>Floating output</b>	✓ (2)
<b>Optical indicators</b>	21 LEDs (10 x status display, 10 x LED bar graph, 1 green feedback spot)
<b>Memory card</b>	Micro SD memory card (flash card) max. 16 GB, optional

**Mechanics/electronics**

<b>Dimensions, system (L x W x H)</b>	Customized
<b>Enclosure rating</b>	IP64 (DIN 40 050)
<b>Protection class</b>	III
<b>Connection modules</b>	MSC800
<b>Supply voltage</b>	(100 V AC ... 264 V AC)
<b>Mains frequency</b>	(50 Hz ... 60 Hz)
<b>Power consumption</b>	20 W, ± 20 % per Lector65x (not included: connectivity, lightswitch, etc.)
<b>Fixing</b>	ITEM-frame

**Ambient data**

<b>Ambient temperature operation</b>	0 °C ... +40 °C
<b>Ambient storage temperature</b>	-20 °C ... +70 °C
<b>Permissible relative humidity</b>	90 %, Non-condensing
<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-4 (2007-01) + A1 (2011-03)
<b>Ambient light immunity</b>	2,000 lx, on code

**General notes**

<b>Items supplied</b>	Lector65x (1 x ... 16 x) Mounting bracket (1 x ... 16 x) MSC800 Focus device Photoelectric sensor Encoder Cables
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**Recommended accessories**Other models and accessories → [www.sick.de/Lector65x\\_System](http://www.sick.de/Lector65x_System)

Brief description	Type	Part no.
Other mounting accessories		
	Glare protection	On request
	Mounting frame	On request

Brief description	Type	Part no.
Modules and gateways		
Network switch for MSC800 for image output	Network switch	On request

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. 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 a wide range of 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 complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is "Sensor Intelligence."**

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## WORLDWIDE PRESENCE:

Contacts and other locations [www.sick.com](http://www.sick.com)