



## Lector85x OPS Performance Upgrade Kit CDx

### Lector Identification System

TRACK AND TRACE SYSTEMS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
Lector85x OPS Performance Upgrade Kit CDx	2144713

**Included in delivery:** V2D8509R-1MCXXXAFOSXXXX (2), C-mount lens (2), VI83I-WH3047H0 (2), Spacer (1), Optics protection hood (glass) (1), microSD memory card (1), Mounting bracket kit 0° - 55° (1), YM2X18-050EG1MRJA8 (1)

Other models and accessories → [www.sick.com/Lector\\_Identification\\_System](http://www.sick.com/Lector_Identification_System)



## Detailed technical data

## Features

<b>Products by tasks</b>	Identifying - 1D code Identifying - 2D code
<b>Sensor</b>	CMOS monochrome
<b>Sensor resolution</b>	9 MP
<b>Variant</b>	Performance upgrade kit
<b>Focus</b>	Adjustable focus, manual
<b>Aperture angle</b>	47°, illumination
<b>Scanning frequency</b>	20 Hz, With resolution of 9 megapixels
<b>MTBF</b>	100,000 h
<b>Conveyor type</b>	Belt conveyor Cross-belt sorter Tilt-tray sorter Roller conveyor Others on request
<b>Lens focal length</b>	16 mm

## Mechanics/electronics

<b>Dimensions, system (L x W x H)</b>	143.4 mm x 90 mm x 46 mm
<b>Enclosure rating</b>	IP65 (IEC 60529:2013 +C1:2013 +C2:2015 +AMD2 C1:2019, EN 60529:1991 +A1:2010 +A2:2013 +AC:2019-02)
<b>Electrical safety</b>	EN 61010:2010, EN 61010-1:2010/A1:2019/AC:2019-04
<b>Supply voltage</b>	24 V DC, ± 20 % <sup>1)</sup>
<b>Lens</b>	C-mount
<b>Window material</b>	Glass
<b>Housing material</b>	Aluminum die cast
<b>Total weight</b>	640 g, without lens and connection cables

<sup>1)</sup> Voltage source in accordance with ES1 (EN 62368-1) or SELV (EN 60950-1).

## Performance

<b>Code types</b>	Code 128 GS1-128
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<sup>1)</sup> Depends on lens used.

	EAN 128 EAN 8 EAN 13 UPC-A UPC-E Interleaved 2 of 5 Codabar Code 93 Postal code
<b>2D code types</b>	Data Matrix ECC200 GS1 Data-Matrix MaxiCode QR code Aztec
<b>Code resolution</b>	$\geq 0.1 \text{ mm}$ <sup>1)</sup>
<b>Detectable object colors</b>	Anthracite gray (RAL 7016)

<sup>1)</sup> Depends on lens used.

## Interfaces

<b>Switching inputs</b>	2, "Sensor 1" "Sensor 2" Insulated Encoder input External trigger
<b>Number</b>	1, 2, 1, 1, 1, 2
<b>Reading pulse</b>	Digital inputs / CAN / auto pulse
<b>Optical indicators</b>	12, LEDs, 10 x status displays, 2 x feedback spot

## Ambient data

<b>Ambient operating temperature</b>	0 °C ... +50 °C, If the ambient operating temperature will be $\geq 45$ °C, ensure adequate heat dissipation when mounting the device.
<b>Ambient temperature, storage</b>	-20 °C ... +70 °C
<b>Permissible relative humidity</b>	$\leq 90\%$ , Non-condensing
<b>Shock load</b>	EN 60068-2-27:2008
<b>Vibration load</b>	EN 60068-2-6:2007, EN 60068-2-64:2019

## General notes

<b>Laser class</b>	1 (EN 60825-1:2014+A11:2021), (IEC 60825-1:2014) (complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019)
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## Certificates

<b>China RoHS</b>	✓
<b>4Dpro</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27280103
<b>ECLASS 5.1.4</b>	27280103
<b>ECLASS 6.0</b>	27280103
<b>ECLASS 6.2</b>	27280103
<b>ECLASS 7.0</b>	27280103
<b>ECLASS 8.0</b>	27280103
<b>ECLASS 8.1</b>	27280103

<b>ECLASS 9.0</b>	27280103
<b>ECLASS 10.0</b>	27280103
<b>ECLASS 11.0</b>	27280103
<b>ECLASS 12.0</b>	27280103
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>ETIM 7.0</b>	EC002999
<b>ETIM 8.0</b>	EC002999
<b>UNSPSC 16.0901</b>	43211701

## 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."**

## WORLDWIDE PRESENCE:

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