ICD8xx
Efficient sorting of objects at the highest conveyor speeds

SICK
Sensor Intelligence.

ICD8xx

Technical data overview

Focus	Dynamic focus control / dynamic focus control or constant focus (depending on type)
Sensor resolution	8,192 px (200 dpi) 12,288 px 8,192 px
Reading distance	800 mm ... 3,900 mm (depending on type)
Enclosure rating	IP64 / IP65 (depending on type)
Serial	✓, RS-232
Ethernet	✓ (3), TCP/IP
CAN bus	✓ (2)
PROFIBUS DP	✓
USB	✓
CAN	✓ (2)
Weight	13.5 kg / approx. 11 kg (depending on type)

Product description

The ICD8xx image-based code reader is the ideal identification solution for sorting processes at very high conveyor speeds. The cubic and irregular shipping objects to be sorted are quickly and reliably identified while all common 1D / 2D codes as well as postal codes are taken into account. The excellent image quality of the integrated camera also enables use in OCR, video coding and vision applications. The sensor can be used both for narrow conveyor widths as well as for widths up to 1,600 mm and can be extended to include products such as a volume measurement system.

At a glance

• 8/12 k quad-line color sensor
• Linux-based software platform
• Ethernet-based code data transmission to the SIM2000 controller
• Integrated computing power to support the latest vision applications
• MTBF of 120,000 h

Your benefits

• Throughput of more than 18,000 objects/h at conveyor speeds of up to 4.5 m/s
• Conveyor belt widths of up to 1,600 mm are covered
• High-resolution image quality (200 dpi) for the best read rates, OCR results, video coding and vision applications
• Completely integrated code reading and vision solutions without requiring an additional PC/server
• Monitoring option thanks to decentralized image archiving
• Reduced shadow effects and minimal system footprint thanks to the 55° camera skew angle
• Simplified and cost-efficient cabling due to Ethernet line network topology

Fields of application

• Challenging code reading for optimizing sorting processes in the fields of transport and logistics
• Image acquisition and storage for OCR, video coding, archiving and vision applications

Ordering information

Other models and accessories ➜ www.sick.com/ICD8xx

- **Readable code structures:** 1D codes, 2D codes, Stacked, plain text

Sensor resolution	Optical focus	Lens	Type	Part no.
12,288 px	Dynamic focus control or constant focus	Integrated, 120 mm	ICD890-45232010	1092552
			ICD890-45232020	1121586
			ICD890-47232010	1092554
		Integrated, 80 mm	ICD880-45152020	1092555
8,192 px	Dynamic focus control or constant focus	Integrated, 95 mm	ICD890-44342010	1092551
			ICD890-44342020	1092550
			ICD890-46342010	1092553
8,192 px (200 dpi)	Dynamic focus control	80 mm	ICD880-3212100	1061170
		Integrated, 135 mm	ICD890-3200100	1061166
			ICD890-3201100	1061167
			ICD890-3300100	1061168
			ICD890-3301100	1061169

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**

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