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DATA SHEET

ICD890-3301100

ICD8xx
Image-based code readers

SICK Sensor Intelligence



IMAGE-BASED CODE READERS

ICD890-3301100

ORDERING INFORMATION

Type	part no.
ICD890-3301100	1061169

Further device versions and accessories at www.sick.com/ICD8xx

DETAILED TECHNICAL DATA

FEATURES

Optical focus	Dynamic focus control
Sensor	Dual-line CMOS sensor
Sensor resolution	8,192 px (200 dpi, with 2.5 m/s conveyor speed)
Line frequency	Max. 30 kHz
Lens	Integrated
Focal length	135 mm
Reading distance	1,600 mm ... 3,300 mm [1]
Field of view	1,300 mm (150 dpi)
Depth of field	1,700 mm (150 dpi)

[1] At 0,3 mm code resolution.

MECHANICS/ELECTRONICS

Connection type	7 x M12 2 x RJ45
Power consumption	Typ. 75 W
Battery	Type: TL-2450 cell (1/10C cell), soldered, non-rechargeable Chemical system: Lithium thionyl chloride (Li-SOCl2) Lithium quantity: 0.2 g
Housing material	Aluminum die cast Aluminum extruded profile
Housing color	Light blue (RAL 5012)
Enclosure rating	IP64 (DIN 40 050)
Protection class	III (IEC 1010-1)
Weight	13.5 kg
Dimensions (L x W x H)	496 mm x 208 mm x 214 mm
MTBF	80,000 h
MTTR	< 10 min

PERFORMANCE

Readable code structures	1D codes, 2D codes, Stacked, plain text
Bar code types	Interleaved 2 of 5, Codabar, Code 128, Code 39, EAN/UPC with add-on, GS1-128 / EAN 128, postal codes
2D code types	Data Matrix ECC200, MaxiCode, QR code, PDF417, others on request
OCR/OCV fonts	On request
Print ratio	2:1 ... 3:1
Transport speed	4.8 m/s (100 lpi)
Minimum object distance	≥ 50 mm
Number of objects per second	≤ 10
Image type	JPEG, TIFF

INTERFACES

Serial	✓ , RS-232
Function	Service interface
Data transmission rate	≤ 56,700 Baud
Ethernet	✓ (3) , TCP/IP
Function	Service interface, FTP, real-time image output
Data transmission rate	1x 10/100 Mbit/s, 2x Gbit/s
CAN bus	✓ (2)
Function	SICK CAN sensor network
Data transmission rate	10 kbit/s ... 1 Mbit/s
PROFIBUS DP	✓
Remark	Via MSC800 controller
Optical indicators	5 LED (status displays)
Memory card	SD-Card, 1 GB

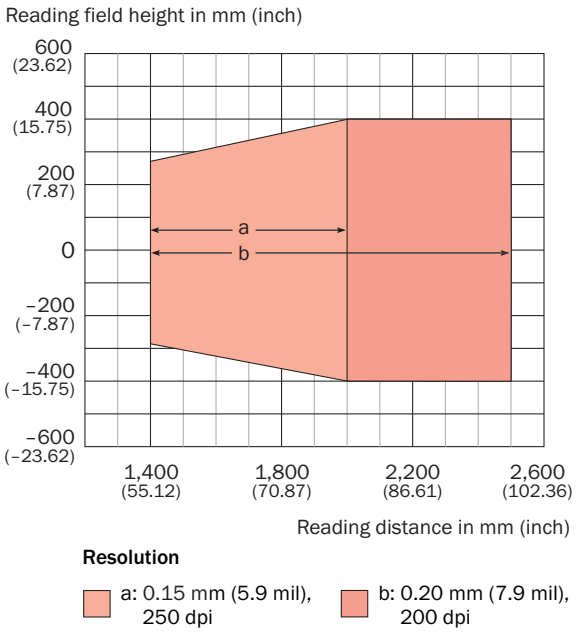
AMBIENT DATA

Vibration resistance	IEC 68-2-6
Shock resistance	IEC 68-2-27 IEC 68-2-32
Ambient operating temperature	0 °C ... +50 °C
Storage temperature	–20 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing
Ambient light immunity	2,000 lx, on code
Bar code print contrast (PCS)	≤ 40 %

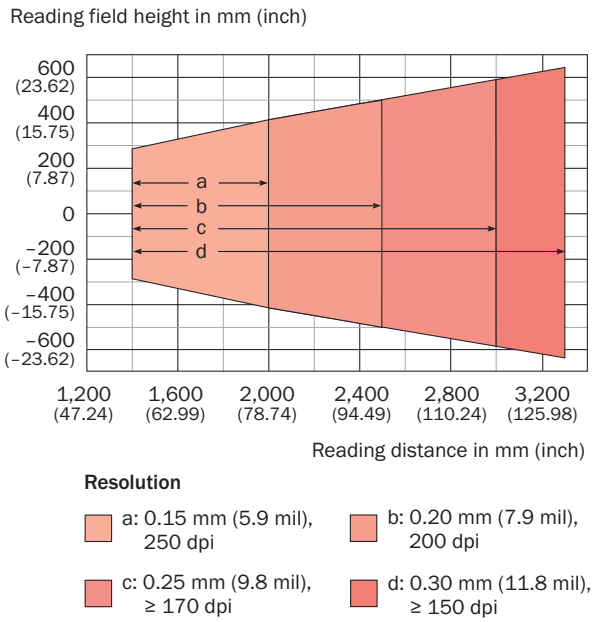
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
BIS registration	✓

READING FIELD DIAGRAM CAMERA TYPE ICD890 WITH ILLUMINATION TYPE ICI890 (900 MM)



READING FIELD DIAGRAM CAMERA TYPE ICD890 WITH ILLUMINATION TYPE ICI890 (1100 MM)



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1061169

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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