Data sheet

ICD890-3300100

ICD8xx

IMAGE-BASED CODE READERS

SICK
Sensor Intelligence.

Ordering information

Type	part no.
ICD890-3300100	1061168

Other models and accessories ➜ 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	1,400 mm ... 3,000 mm [1]
Field of view	1,175 mm (170 dpi)
Depth of field	1,600 mm (170 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

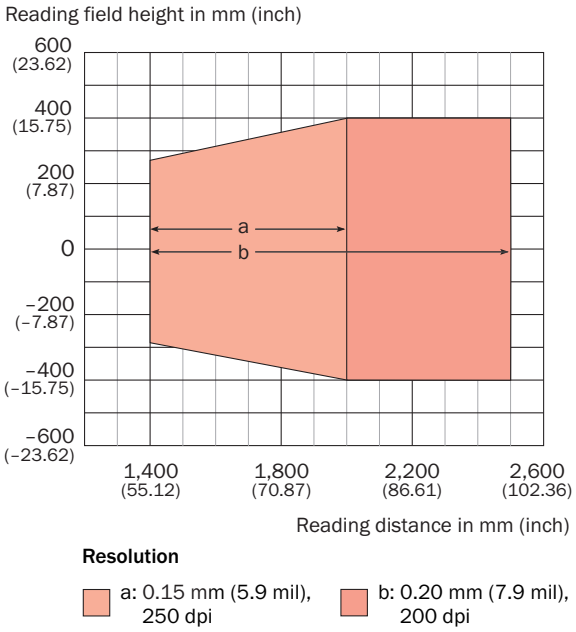
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
BIS registration	✓

Classifications

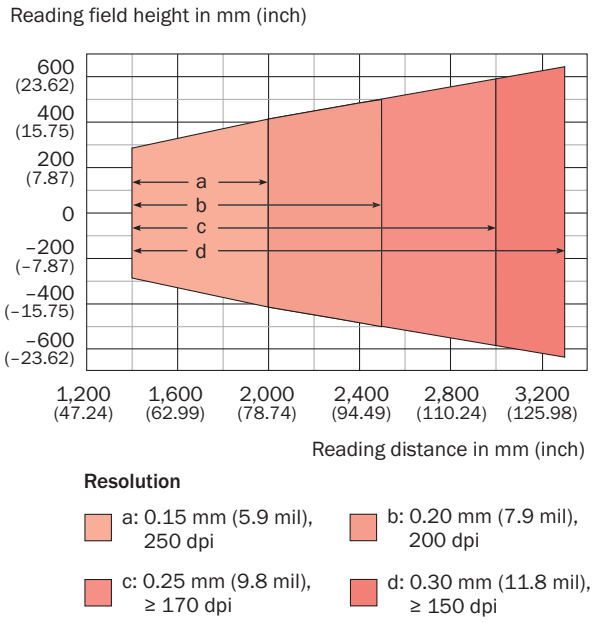
ECLASS 5.0	27280103
ECLASS 5.1.4	27280103
ECLASS 6.0	27280103
ECLASS 6.2	27280103

ECLASS 7.0	27280103
ECLASS 8.0	27280103
ECLASS 8.1	27280103
ECLASS 9.0	27280103
ECLASS 10.0	27280103
ECLASS 11.0	27280103
ECLASS 12.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002999
ETIM 8.0	EC002999
UNSPSC 16.0901	43211701

Reading field diagram Camera type ICD890 with illumination type ICI890 (900 mm)



Reading field diagram Camera type ICD890 with illumination type ICI890 (1100 mm)



Resolution

- a: 0.15 mm (5.9 mil), 250 dpi
- b: 0.20 mm (7.9 mil), 200 dpi
- c: 0.25 mm (9.8 mil), ≥ 170 dpi
- d: 0.30 mm (11.8 mil), ≥ 150 dpi

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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