

ICD890-44342010

ICD8xx

IMAGE-BASED CODE READERS





Ordering information

Туре	Part no.
ICD890-44342010	1092551

This product can only be ordered as part of the ICR890-4 8K Prime system.

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



Detailed technical data

Features

reatures		
Application	Indoor area	
Function	Line camera with integrated 1D/2D code decoder, image output and additional optional 2D vision functions $$	
Optical focus	Dynamic focus control or constant focus	
Sensor	CMOS line sensor	
Sensor resolution	8,192 px (200 dpi, Standard resolution)	
Processor	High performance	
Line frequency	Max. 50 kHz	
Lens	Integrated	
Focal length	95 mm	
Reading distance	1,550 mm 3,600 mm ¹⁾	
Field of view	1,200 mm (170 dpi) 1,035 mm (200 dpi)	
Code resolution	≥ 0.1 mm	
Operating mode	Forward, backward, start/stop	
Further functions	Extended analysis of code quality, empty tote detection, hazardous material detection, object classification, 2D dimensioning (image-based calculation of object dimensions)	

 $^{^{1)}}$ Related to device reference point, for details see field of view diagram.

Mechanics/electronics

Connection type	3 x M12, 8-pin female connector, X-coded, CAT 6A (Ethernet 1 3) 1 x M12, 12-pin female connector, A-coded (I/O) 1 x M12, 5-pin female connector (CAN Out) 1 x M12, 5-pin male connector, A-coded (CAN In) 1 x M12, 8-pin female connector (Light 1) 1 x M12, 5-pin female connector, L-coded (PWR Out) 1 x M12, 5-pin male connector, L-coded (PWR In) 1 x USB, 5-pin female connector, type A
Supply voltage	24 V DC, -10 % +20 %
Power consumption	Typ. 80 W, standby typ. 50 W
Battery	Type: TL-2450 cell (1/10C cell), soldered, non-rechargeable Chemical system: Lithium thionyl chloride (Li-SOCl2) Lithium quantity: 0.2 g

Current consumption	10 A
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (EN 60529:1991-10 / A2:2000-02 / A3:2013)
Protection class	III (EN 61140)
Electrical safety	EN 61010-1:2010-10
Weight	Approx. 11 kg
Dimensions (L x W x H)	486.6 mm x 300 mm x 179 mm
MTBF	120,000 h
MTTR	< 10 min

Performance

Readable code structures	1D codes, 2D codes, Stacked, plain text
Bar code types	${\it GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Code 39, Code 128, Codabar, Code 32, Code 93, postal codes}$
2D code types	Data Matrix ECC200, GS1 Data-Matrix, MaxiCode, QR code, Aztec, PDF417
Skew angle	≤ 75°
Transport speed	≤ 4.5 m/s
Minimum object distance	≥ 50 mm
Number of objects per second	≤ 10
Image type	JPEG, TIFF, BMP
Image output	Up to 4 (s)FTP clients, AWS S3 client, FTP Server, Samba Server, REST Server

Interfaces

USB	√
Function	USB 2.0
Ethernet	√ (3), TCP/IP
Function	FTP, real-time image output
Data transmission rate	1 Gbit/s
CAN	√ (2)
Remark	CSN (SICK CAN Sensor Network)
Function	1 x CAN In, 1 x CAN Out
Data transmission rate	20 kbit/s 500 Mbit/s
Optical indicators	3 LED (device status displays) 3 double LED (ethernet status displays)
Configuration software	SOPAS ET
Memory card	$1\mathrm{x}$ 2.5 inch SSD (image and data logging), $1\mathrm{x}$ microSD memory card (configuration data backup)

Ambient data

Electromagnetic compatibility (EMC)	IEC 61000-6-4:2018, IEC 61000-6-2:2019
Vibration resistance	IEC 60068-2-6:2007-12
Shock resistance	IEC 60068-2-27:2008-02
Ambient operating temperature	-10 °C +50 °C
Storage temperature	-20 °C +70 °C

ICD890-44342010 | ICD8xx

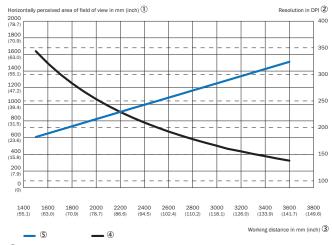
IMAGE-BASED CODE READERS

Permissible relative humidity	95 %, Non-condensing
Ambient light immunity	2,000 lx, on code
Contamination rating	2 (EN 61010-1)
Altitude (above sea level)	< 2,000 m

Classifications

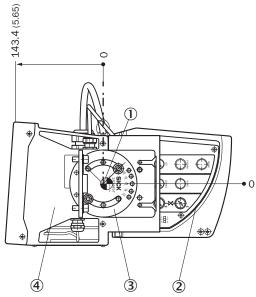
ECLASS 5.0	27280103
ECLASS 5.1.4	27280103
ECLASS 6.0	27280103
ECLASS 6.2	27280103
ECLASS 7.0	27280103
ECLASS 8.0	27280103
ECLASS 8.1	27280103
ECLASS 9.0	27280103
ECLASS 10.0	27280103
ECLASS 11.0	27280103
ECLASS 12.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002999
ETIM 8.0	EC002999
UNSPSC 16.0901	43211701

Field of view



- ① Horizontal perceived field of view area in mm (inch)
- ② Resolution in DPI
- ③ Working distance in mm (inch)
- 4 Horizontal perceived field of view area
- ⑤ Resolution

Device reference point



- Device reference point
 Camera ICD890
- ③ Mounting bracket
- ④ Illumination ICI890

Recommended services

Additional services → www.sick.com/ICD8xx

	Туре	Part no.
Extended warranty		
 Product area: Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671
Service agreements		
 Product area: Robot guidance systems, Track and trace systems, Driver assistance systems, Object detection systems, Profiling systems, Gateway systems, Quality control systems Range of services: Maintenance, Troubleshooting, extended warranty, 8/5 remote support, 8/5 help desk Duration: Duration is arranged individually with the customer and defined in the contract 	Bronze service agree- ments for Systems	1616164

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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.

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