

ICD880-45152020

ICD8xx

IMAGE-BASED CODE READERS





Ordering information

Туре	Part no.
ICD880-45152020	1092555

This product can only be ordered as part of the ICR880-4 12K Core system.

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



Detailed technical data

Features

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	12,288 px (200 dpi, high resolution)
Line frequency	Max. 43 kHz
Lens	Integrated
Focal length	80 mm
Reading distance	850 mm 1,500 mm ¹⁾
Field of view	1,800 mm (170 dpi) 1,560 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)

 $^{^{1)}\,\}mbox{Related}$ 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
Permissible relative humidity	95 %, Non-condensing

ICD880-45152020 | ICD8xx

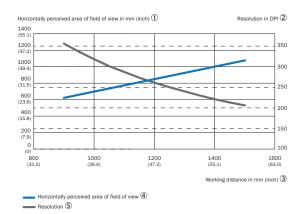
IMAGE-BASED CODE READERS

Ambient light immunity	2,000 lx, on code
Contamination rating	2 (EN 61010-1)
Altitude (above sea level)	< 2,000 m

Classifications

01400 F 0	7000403
CLASS 5.0 27	7280103
CLASS 5.1.4	7280103
CLASS 6.0 27	7280103
CLASS 6.2	7280103
CLASS 7.0 27	7280103
CLASS 8.0 27	7280103
CLASS 8.1 27	7280103
CLASS 9.0 27	7280103
CLASS 10.0 27	7280103
CLASS 11.0 27	7280103
CLASS 12.0 27	7280103
FIM 5.0	C002550
FIM 6.0	C002550
ГІМ 7.0	C002999
FIM 8.0	C002999
NSPSC 16.0901 43	3211701

Field of view



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

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

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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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