

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

Function	Line camera with integrated $1\text{D}/2\text{D}$ 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, 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)

 $^{^{1)}}$ 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	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)

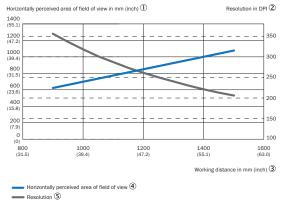
Ambient data

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
Ambient light immunity	2,000 lx, on code

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
- $\ensuremath{ \mbox{ \fontfamily distance in mm (inch)} }$
- 4 Horizontal perceived field of view area
- ⑤ Resolution

Recommended services

Additional services → www.sick.com/ICD8xx

	Туре	Part no.
Extended warranty		
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors 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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