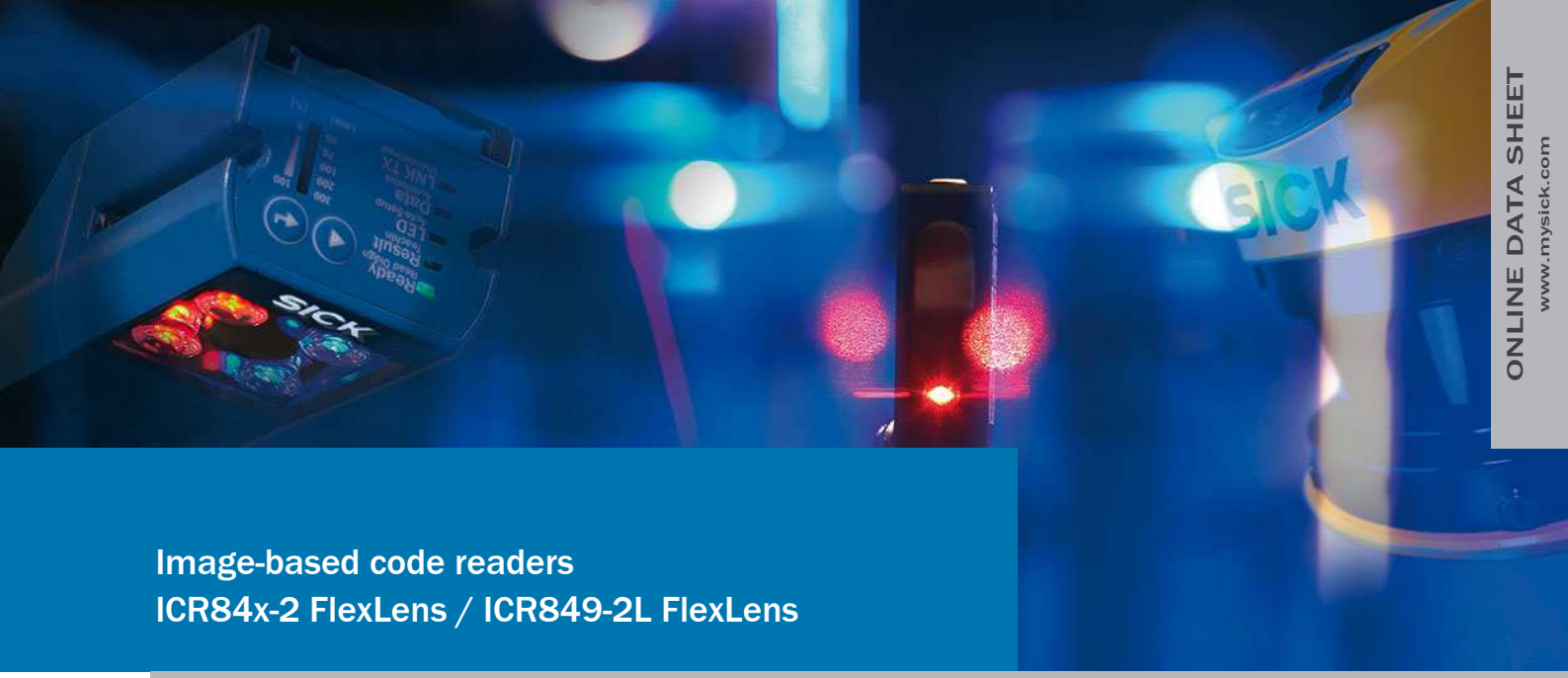


ONLINE DATA SHEET
www.mysick.com

Image-based code readers
ICR84x-2 FlexLens / ICR849-2L FlexLens

ICR849-2L1030 FlexLens



SICK
Sensor Intelligence.

Image-based code readers
ICR84x-2 FlexLens / ICR849-2L FlexLens

Model Name > ICR849-2L1030 FlexLens
Part No. > 1051931



Illustration may differ

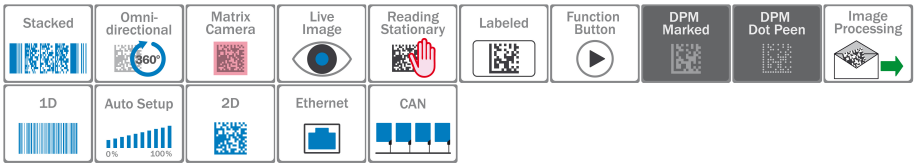
At a glance

- Configure with live image and auto setup
- Fast, omni-directional reading of printed and direct part marked 1D and 2D codes
- Rapid image and data transfer via Ethernet
- Adjustable reading distances with c-mount lense and illumination
- Industrial IP 65 housing (with optional hood and cap) for tough environmental conditionsAdjustable reading distances with c-mount lense and illumination
- High-resolution, 4 megapixel imager for large field of view with high density codes

Your benefits

- Fast, cost-effective commissioning via easy user interface with live image and auto setup configuration
- Omni-directional identification of 1D and 2D codes makes it possible to identify objects that are not aligned
- High-speed, reliable decoding of low contrast and direct part marked codes guarantees secure identification and flexible use
- Different c-mount lens options and illumination types and colors make it ideal for a wide range of solutions
- Dynamic parameter switching makes decoding of different code qualities possible with just one setting
- Large reading area and 4 MP camera resolution allows code reading of high density codes at long distance

The product has been discontinued. Please follow the "replacement product" link for information about alternative products.





Features

Reading field:	Side
Focus:	Variable (per interchangeable lens)
Sensor:	CMOS matrix sensor
Sensor resolution:	2,048 px x 1,944 px x 4 megapixel)
Code resolution:	≥0.1 mm [1)]
Reading distance::	0.1 m ... 3 m [2) 3)]
Scanning frequency:	10 Hz, at full resolution
Light source:	External illumination

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MTBF:	75,000 h

[1) 2)] Depends on lens used; valid for Data Matrix, PDF417 and 1D codes with good printing quality [3)] For details see reading field diagram

Performance

Bar code types:	Interleaved 2 of 5, Codabar, Code 128, Code 39, GS1-128/EAN 128, Pharmacode, UPC/GTIN/EAN
2D code types:	Data Matrix ECC200, GS1 Data-Matrix, QR code
No. of codes per scan:	1 ... 50
No. of codes per reading interval:	1 ... 50
No. of characters per reading interval:	4,000

Interfaces

Serial (RS-232):	✓
Function (Serial (RS-232)):	Host, AUX
Data transmission rate (Serial (RS-232)):	300 Baud ... 57,600 Baud, AUX: 9,600 Baud
Ethernet:	✓
Function (Ethernet):	Host, AUX, image transmission
Data transmission rate (Ethernet):	10/100 Mbit
Protocol (Ethernet):	TCP/IP, FTP (image transmission), PROFINET (optional via external connection module CDM)
CAN bus:	✓
Function (CAN bus):	SICK CAN sensor network (Master/Slave, Multiplexer)
Data transmission rate (CAN bus):	10 kbit/s ... 1 Mbit/s
Protocol (CAN bus):	CANopen, CSN (SICK CAN Sensor Network)
PROFIBUS DP:	✓
Remark (PROFIBUS DP):	Optional via external connection module (CDM + CMF)
DeviceNet:	✓
Remark (DeviceNet):	Optional via external connection module (CDM + CMF)
Acoustic indicators:	Beeper/buzzer (can be switched off, can be assigned a function to signal a result)
Optical indicators:	6 LEDs (status displays)
Switching inputs:	2
Switching outputs:	2 (Result 1 NPN, Result 2 PNP)
Reading pulse:	Non-powered, Switching inputs, Serial interface

Mechanics/electronics

Operating voltage:	15 V DC ... 30 V DC
Power consumption:	8 W
Electrical connection:	1, 1 x M12 cylindrical connector (4-pin female connector, Ethernet)
Housing:	Die-cast zinc
Housing color:	Light blue (RAL 5012)
Weight:	900 g, with connecting cable
Dimensions:	123.3 mm x 80 mm x 39 mm
Enclosure rating::	IP 30, IP 65 (EN 60529) [1) 2)]
Protection class:	III (EN 61140)
Lens:	C-mount

[1)] For installed IP 65 Ethernet cable and IP 65 lens cover or for IP 65 cover and IP 65 lens cover [2)] Without covered Ethernet connection or with standard Ethernet cable and without lens cover.

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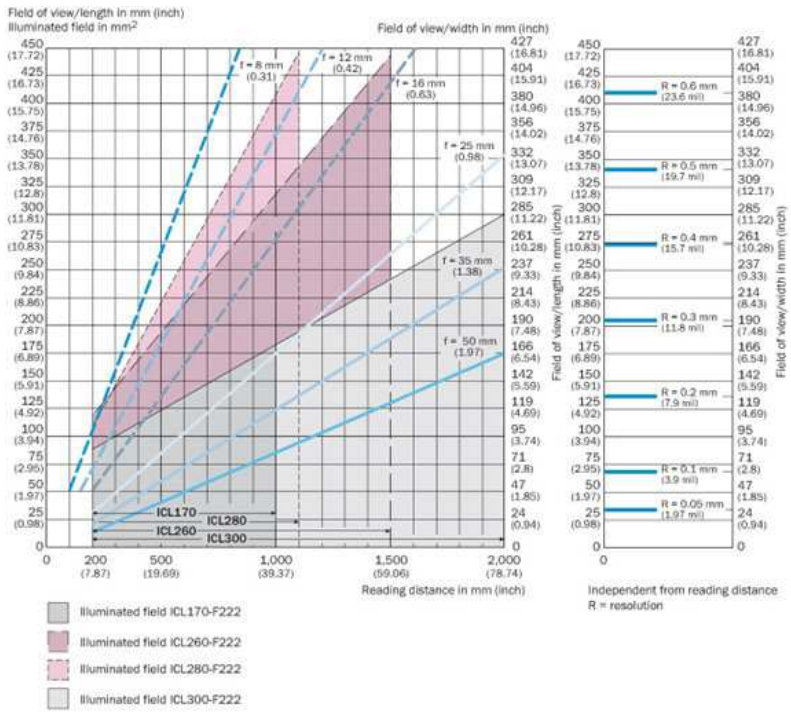
Ambient data

Electromagnetic compatibility (EMC):	EN 61000-6-2 / EN 61000-6-4
Vibration resistance:	EN 60068-2-6
Shock resistance:	EN 60068-2-27
Ambient operating temperature:	0 °C ... +40 °C
Storage temperature:	-20 °C ... +70 °C
Permissible relative humidity:	± 90 %, non-condensing
Ambient light immunity:	2,000 lx, on bar code

General notes

Items supplied:	Single scanner
Life cycle phase:	Phased out

Reading field diagram



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