



Image-based code readers  
ICR84x-2 FlexLens / ICR847-2L FlexLens

ICR847-2L0030 FlexLens



**Model Name** > **ICR847-2L0030 FlexLens**  
**Part No.** > **1051095**



Illustration may differ

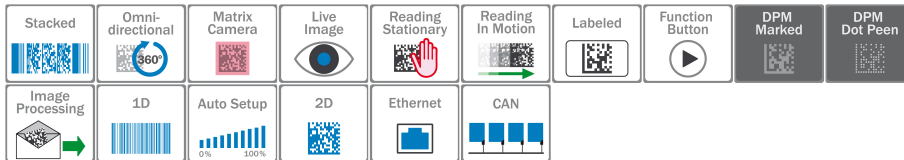
**At a glance**

- Configure with live image and auto setup
- Fast, omni-directional reading of printed and direct marked 1D and 2D codes
- Rapid image and data transfer via Ethernet
- Adjustable reading distances with C-mount lens and illumination
- Industrial IP 65 housing (with optional hood and cap) for rough environmental conditions

**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 imager resolutions, C-mount lens options and illumination types and colors make it ideal for a wide range of solutions
- Dynamic parameter switching makes decoding different code qualities possible with just one setting

**The product has been discontinued. Please contact your SICK sales representative for more information about a replacement product.**



**Features**

Reading field:	Front
Focus:	Variable (per interchangeable lens)
Sensor:	CMOS matrix sensor
Sensor resolution:	1,280 px x 960 px x 1.2 megapixel )
Code resolution:	≥0.1 mm <sup>1)</sup>
Reading distance::	0.1 m ... 3 m <sup>2) 3)</sup>
Scanning frequency:	38 Hz, at full resolution
Light source:	External illumination
MTBF:	75,000 h

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

## Performance

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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

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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

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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) <sup>1) 2)</sup>
Protection class:	III (EN 61140)
Lens:	C-mount

<sup>1)</sup> For installed IP 65 Ethernet cable and IP 65 lens cover or for IP 65 cover and IP 65 lens cover <sup>2)</sup> Without covered Ethernet connection or with standard Ethernet cable and without lens cover.

## Ambient data

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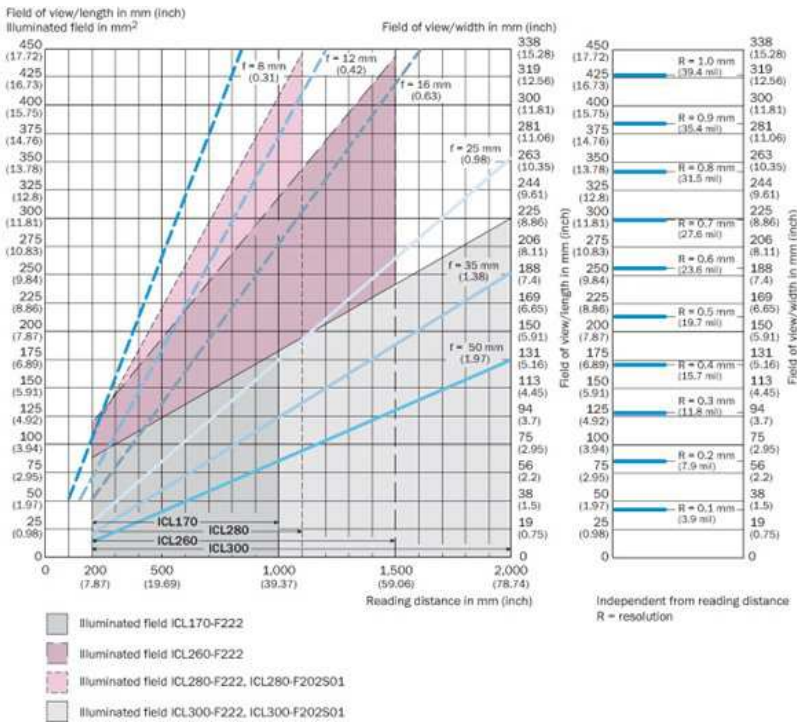
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4
Vibration resistance:	EN 60068-2-6

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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