



Image-based code readers
ICR847-2 / ICR847-2E / Extended Long Range

ICR847-2E0030



Model Name > [ICR847-2E0030](#)
Part No. > [1051094](#)



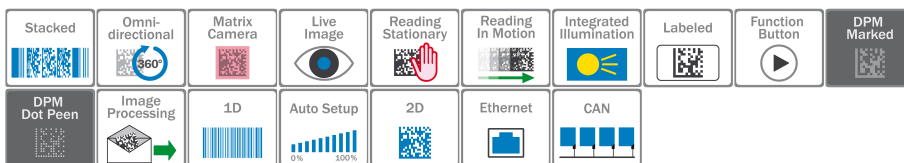
At a glance

- Configure with live image and auto setup
- High resolution, 1,2 megapixel imager for large field of view with high density codes
- Fast, omni-directional reading of printed and direct part marked 1D and 2D codes
- Rapid image and data transfer via Ethernet
- Reliable reading of codes on stationary and on fast-moving objects guarantees secure identification and flexible use

Your benefits

- Robust code identification even at very high transport speeds and speed variances simplifies commissioning and increases operational flexibility
- Large field of view and 1,2 MP camera resolution allow code reading of high density codes
- Fast, cost-effective commissioning via easy user interface with live image and auto setup configuration
- High-speed, reliable decoding of low contrast and direct part marked codes guarantees secure identification and flexible use
- Dynamic parameter switching allows decoding of different code qualities with just one setting
- Omni-directional identification of 1D and 2D codes makes it possible to identify objects that are not aligned
- Industrial IP 65 housing for rough environmental conditions
- Flexible use with integrated, controllable LED illumination

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



Features

Version:	Extended Long Range
Reading field:	Front
Focus:	Fixed focus
Focus position:	175 mm
Sensor:	CMOS matrix sensor
Sensor resolution:	1,280 px x 960 px x 1.2 megapixel)
Code resolution:	≥0.2 mm ¹⁾

Reading distance::	100 mm ... 230 mm ^{2) 3)}
Light source:	Visible red light (lighting LEDs, 617 nm, ± 15 nm)
Laser class:	1 (EN 60825-1)
MTBF:	75,000 h

1) 2) 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:	13 W
Electrical connection:	1 x M12 cylindrical connector (4-pin female connector, Ethernet) 1
Housing:	Die-cast zinc
Housing color:	Light blue (RAL 5012)
Weight:	900 g, with connecting cable
Dimensions:	112 mm x 80 mm x 39 mm
Enclosure rating::	IP 65 (EN 60529) IP 30
Protection class:	III (EN 61140)

1) For installed IP 65 Ethernet cable/IP 65 cover 2) Without covered Ethernet connection or with standard Ethernet cable.

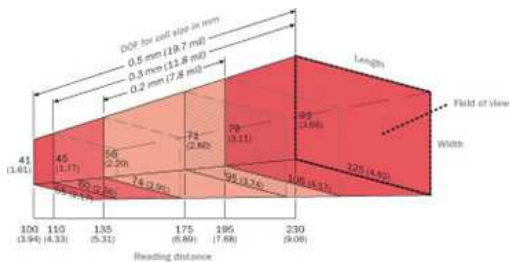
Ambient data

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

General notes

Life cycle phase:	Phased out
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Reading field diagram



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