



Image-based code readers ICR84x-2 FlexLens / ICR845-2L FlexLens / FlexLens

ICR845-2L0020P02 FlexLens Kit



Model Name > [ICR845-2L0020P02 FlexLens Kit](#)
Part No. > [1047432](#)



Illustration may differ

This kit includes the following items:

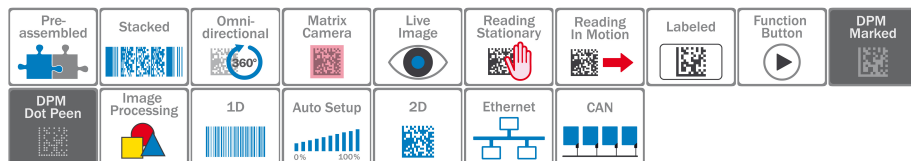
Model Name	Part No.
> ICR845-2L0020 FlexLens	> 1046574
> IP-65 lens hood	> 2049130
> OBJ-C07528A	> 5319457
> C-mount filter element	> 2049139
> ICL300-F222	> 1046820
> Mounting bracket	> 2039465
> Mounting bracket	> 2049750
> Anschlussleitung für ICL-Beleuchtungen	> 6030681
> Ethernet Crossoverleitung	> 6026084

At a glance

- Pre-mounted kit includes illumination, brackets and cables
- 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
- Reliable code reading on fast moving objects

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
- Low cost image-based code reader which solves many applications with just one device



Features

Version:	FlexLens
Reading field:	Front
Focus:	Variable (per interchangeable lens)
Sensor:	CMOS matrix sensor
Sensor resolution:	752 px x 480 px (WVGA)
Code resolution:	≥0.1 mm ¹⁾
Reading distance (at code resolution):	0.1 m ... 3 m ²⁾
Scanning frequency:	60 Hz, for WVGA resolution
MTBF:	75,000 h
Lighting:	Ring illumination, bright field, red illumination, illumination distance 200 mm to 2 m, Via pre-mounted ICL300-F222

1) 2)
Depends on lens used; valid for Data Matrix, PDF417 and 1D codes with good printing quality

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 RJ45 socket on device, cables with 15-pin D-sub HD plug (0.9 m, ± 5 %)
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:	Pre-mounted 75 mm lens

1) For installed adapter frame, IP 65 Ethernet cable and IP 65 lens cover or for installed adapter frame, IP 65 cover and IP 65 lens cover 2) Without covered Ethernet connection or with standard Ethernet cable.

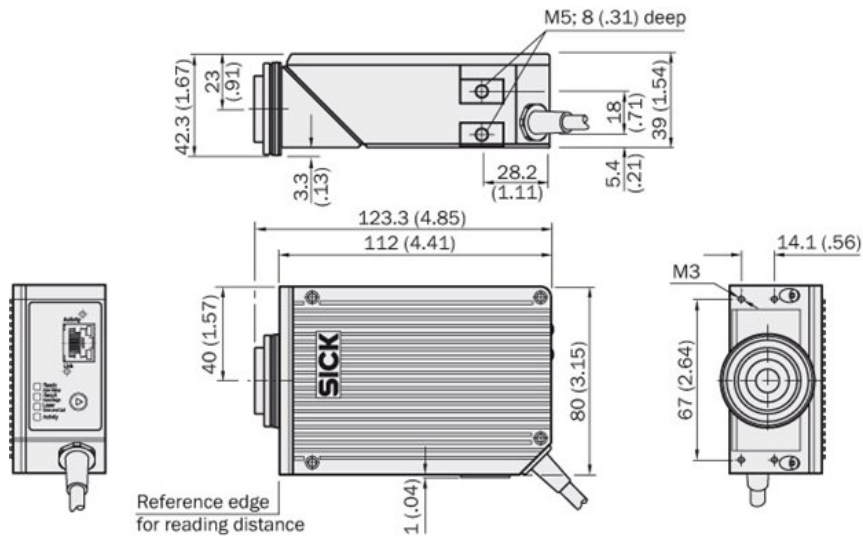
Ambient data

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 safety:	2,000 lx, on bar code

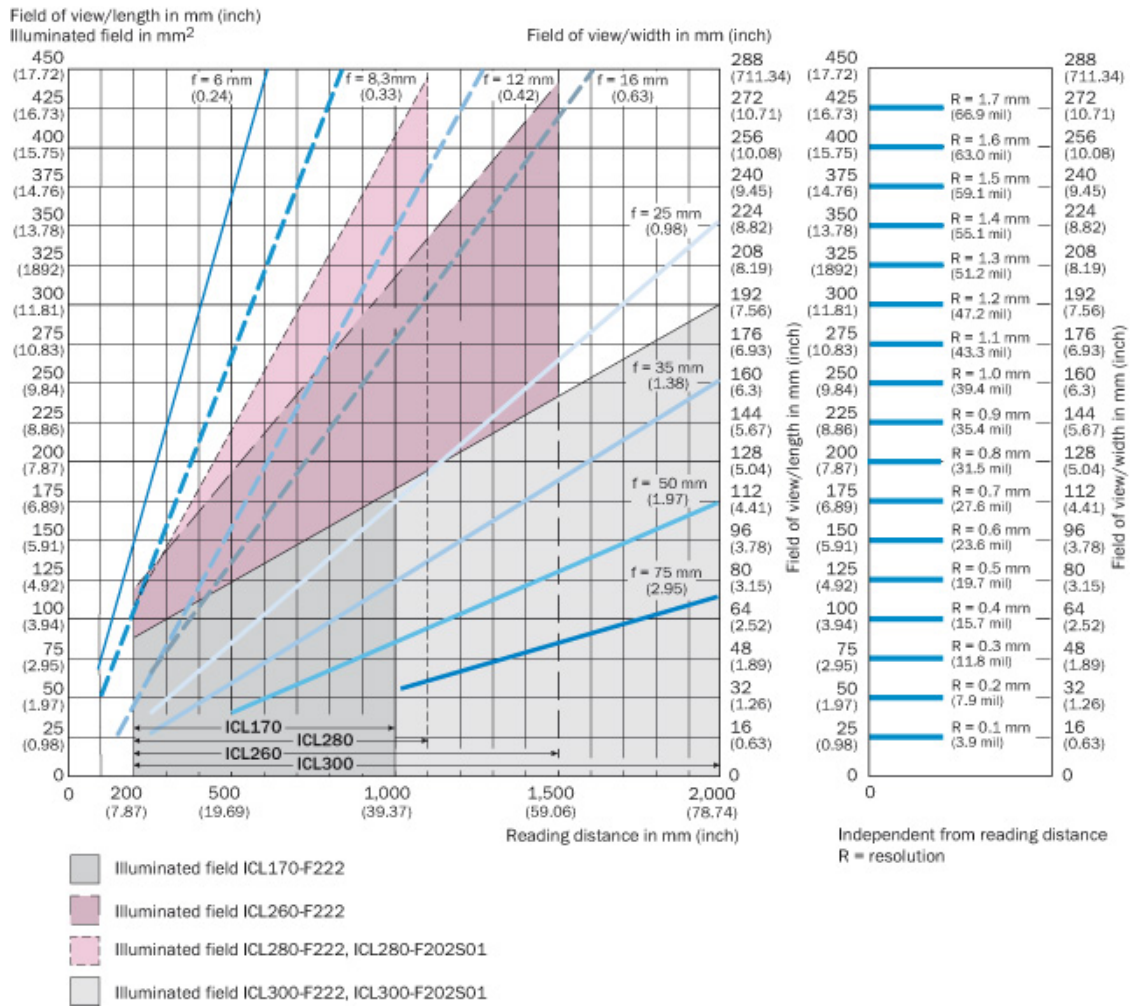
General notes

Items supplied: Pre-mounted kit incl. ICR845-2L0020, ICL300-F222 (red), 75 mm lens, IP 65 hood, C-mount filter (red), mounting bracket, screws and connection cable (2 m) for ring illumination, Ethernet crossover cable, ICR mounting bracket

Dimensional drawing



Reading field diagram



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