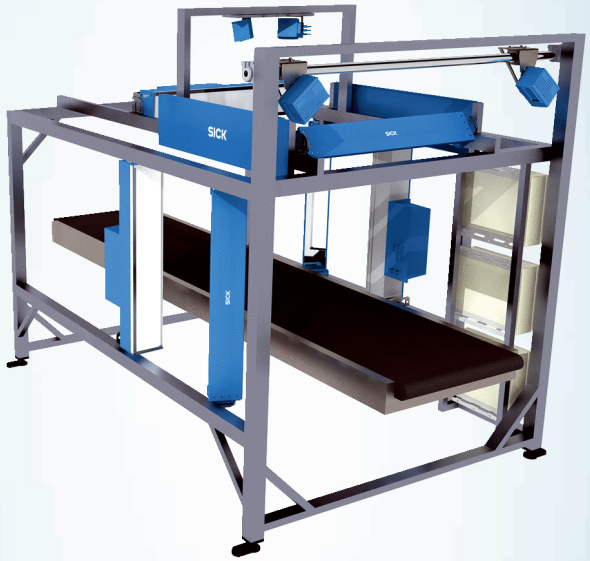
Online data sheet



System type IRS100-x53xxxx

ICR89x System

TRACK AND TRACE SYSTEMS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
System type IRS100-x53xxxx	On request

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications. Our regional sales organization will help you to select the optimum device configuration.

Other models and accessories ➜ www.sick.com/ICR89x_System

CE

Detailed technical data

Features

Camera type	ICR89x
Controller	MSC800
Illumination width	1,100 mm
Focus	Dynamic focus control
Read field width	1,000 mm
Read field height	600 mm
MTBF	80,000 h
MTTR	< 10 min
Image resolution	170 dpi (at 3.8 m/s)
Misalignment of the object	± 15°
Amount object sites/cameras	5-side reading (3 cameras)
Maximum amount object sites/cameras	Up to 6-side reading (16 cameras)
Conveyor type	Belt Crossbelt Roller Tilt tray Others on request
Typical conveyor height	500 mm ... 1,200 mm

Performance

Code types	Interleaved 2 of 5 Codabar Code 128 Code 39 EAN/UPC with add-on GS1-128 / EAN 128 Postal codes
Print ratio	2:1 ... 3:1
Minimum object distance	50 mm
2D code types	Data Matrix ECC200 MaxiCode QR code PDF417 Others on request

Number of objects per second	10

Mechanics/electronics

Dimensions, system (L x W x H)	2,450 mm x 2,450 mm x 2,100 mm (height up to 2,800 mm, depends on the height of the conveyor)
Trigger	SICK WL18-3P430 [1]
Encoder	SICK DFV60 [2]
Power consumption	Depends on the configuration

[1] If supplied by SICK.
[2] 0.2 mm resolution (for belt conveyor only).

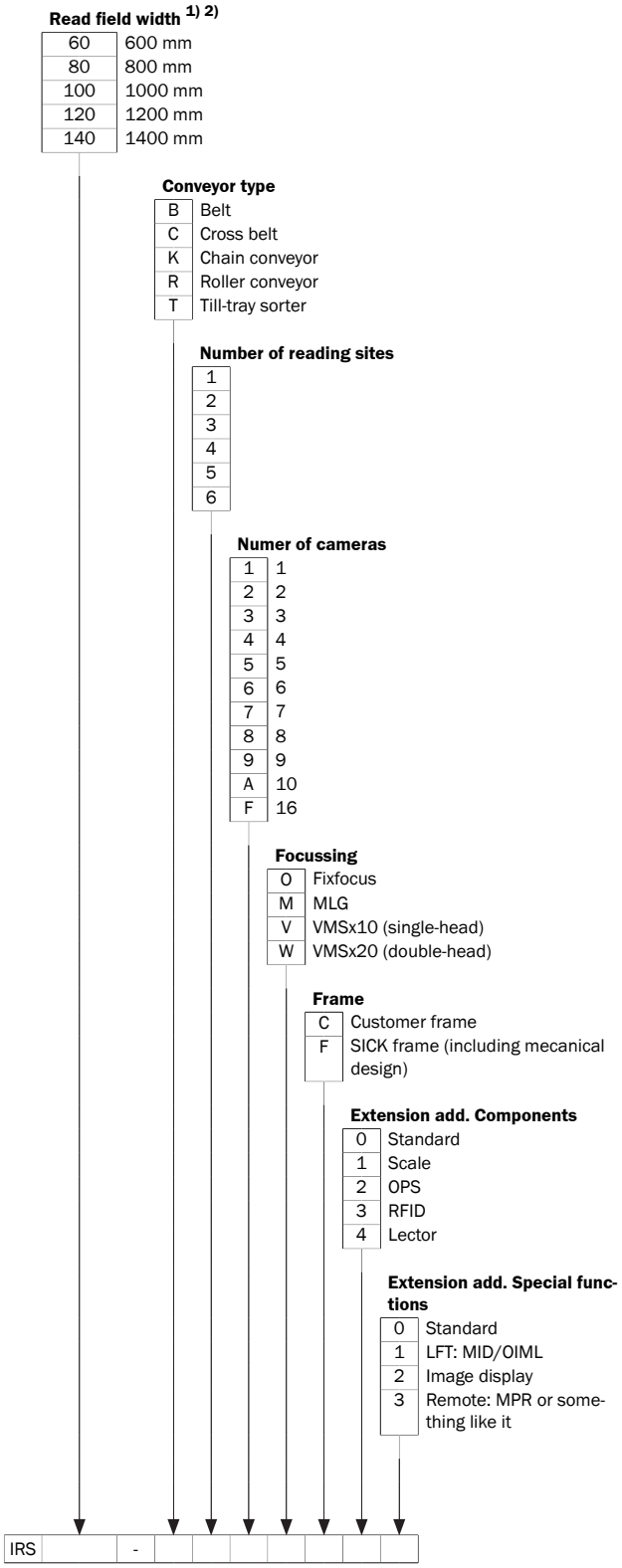
Ambient data

Bar code print contrast (PCS)	≤ 40 %
Ambient temperature operation	0 °C ... +50 °C
Ambient storage temperature	–20 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing
Ambient light immunity	2,000 lx, on code

Classifications

ECl@ss 5.0	27280103
ECl@ss 5.1.4	27280103
ECl@ss 6.0	27280103
ECl@ss 6.2	27280103
ECl@ss 7.0	27280103
ECl@ss 8.0	27280103
ECl@ss 8.1	27280103
ECl@ss 9.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701

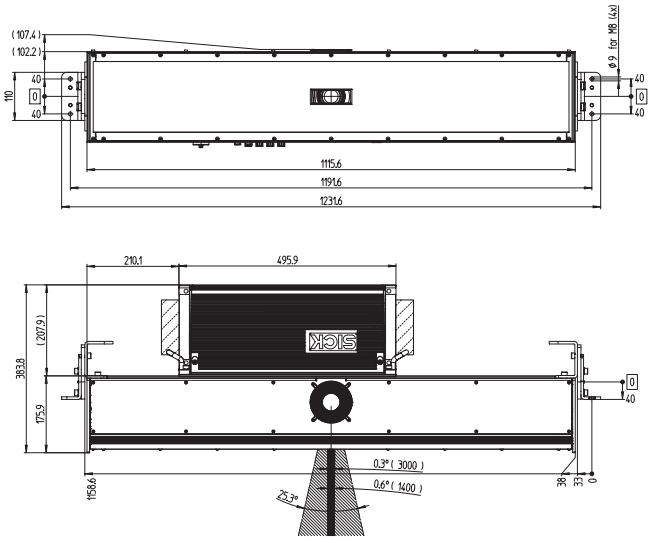
Type code



1) Assignment read field width: the tolerance is max. 50mm, e. g. at 650 mm read field width will be still a 060, 651 mm would already be a 080 system.
2) The step of the read field width is fixed at 200 mm.

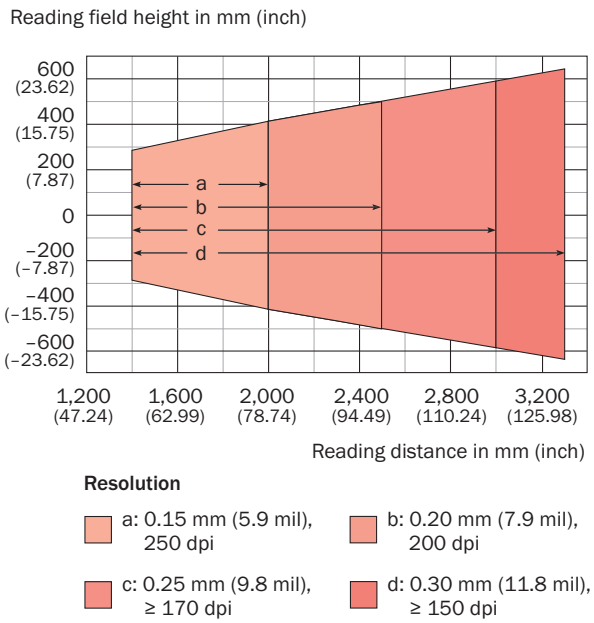
Dimensional drawing (Dimensions in mm (inch))

Camera ICR89x



Reading field diagram

Camera type ICD890 with illumination type ICI890 (1100 mm)



Resolution

- a: 0.15 mm (5.9 mil), 250 dpi
- b: 0.20 mm (7.9 mil), 200 dpi
- c: 0.25 mm (9.8 mil), ≥ 170 dpi
- d: 0.30 mm (11.8 mil), ≥ 150 dpi

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com