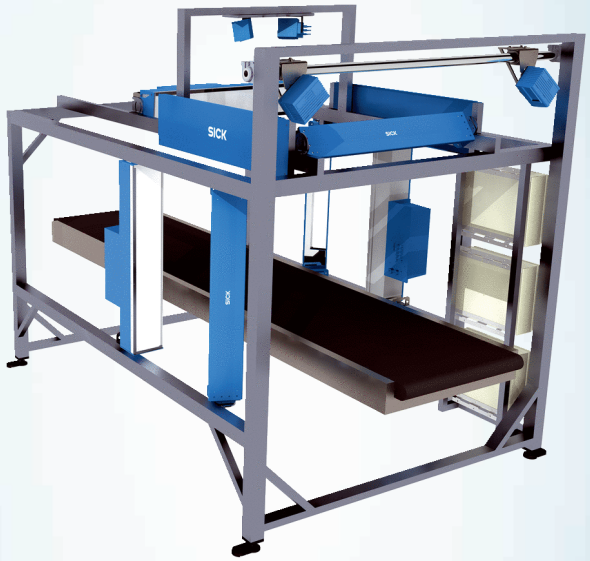
Online data sheet




# System type IRS080-x53xxxx

## ICR89x System

TRACK AND TRACE SYSTEMS

SICK
Sensor Intelligence.

## Ordering information

| Type | Part no. |
|---|---|
| System type IRS080-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** | 900 mm |
| **Focus** | Dynamic focus control |
| **Read field width** | 800 mm |
| **Read field height** | 600 mm |
| **MTBF** | 80,000 h |
| **MTTR** | < 10 min |
| **Image resolution** | 200 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<br>Crossbelt<br>Roller<br>Tilt tray<br>Others on request |
| **Typical conveyor height** | 500 mm ... 1,200 mm |

### Performance

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

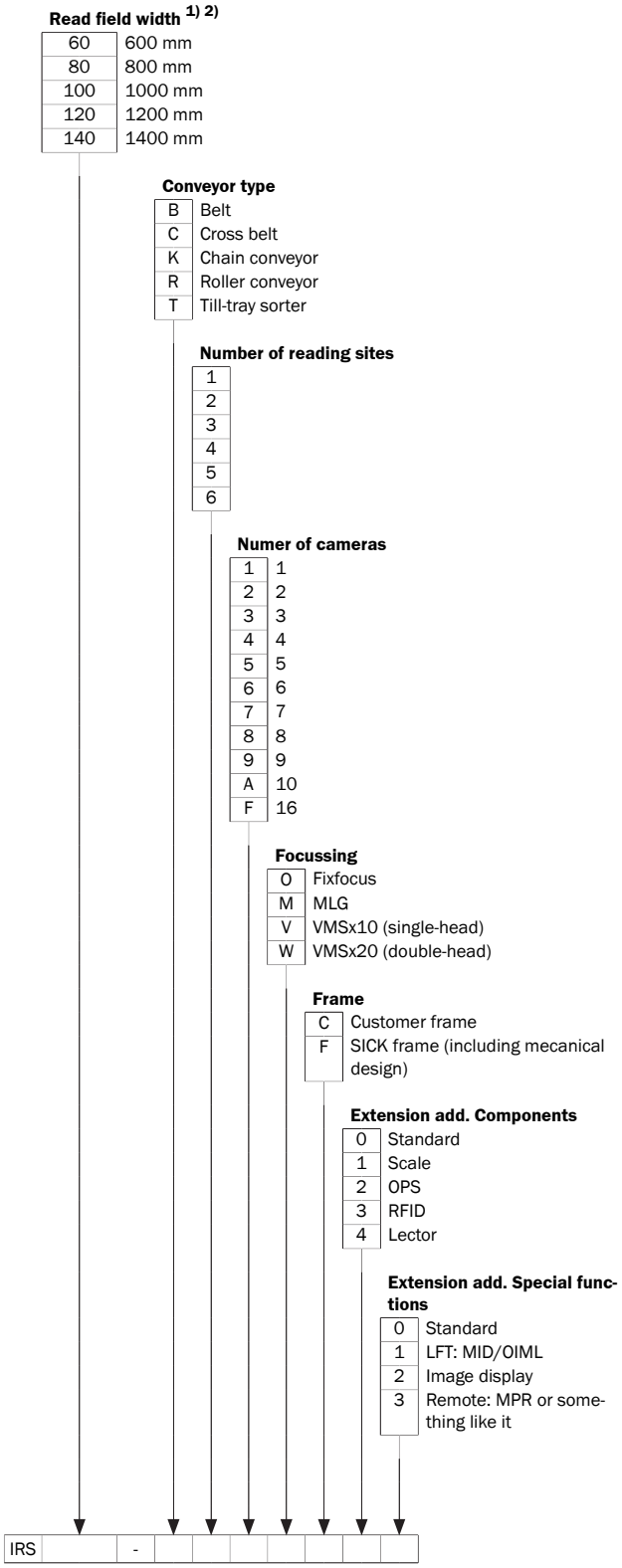
## Ambient data

| | |
|---|---|
| **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 |

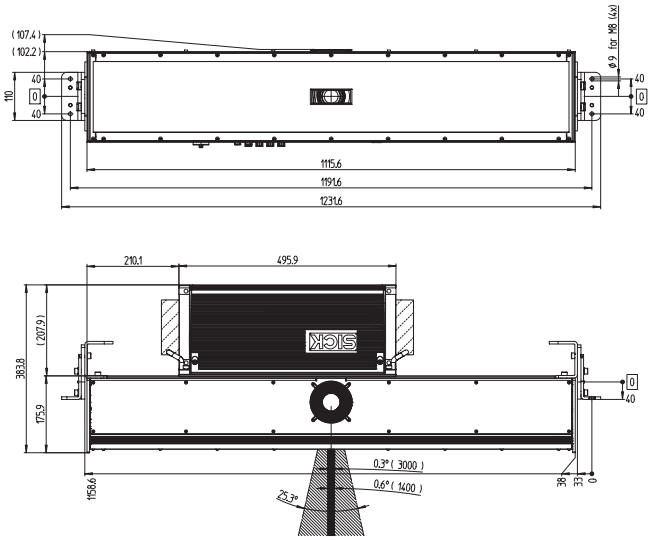
## Type code




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.

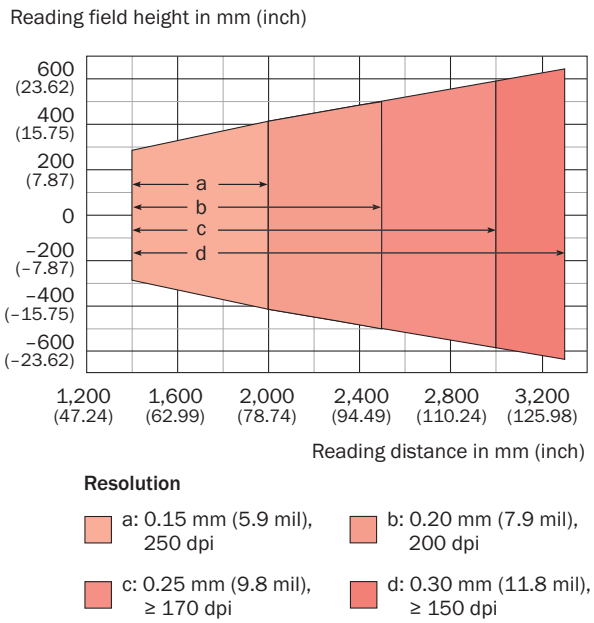
## Dimensional drawing (Dimensions in mm (inch))

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