

## DATA SHEET

PN: 602345728, Model: C6-S7-3070W-MCS-20-200-290-SX-1G-660-3R



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Model Information

|             |                                         |
|-------------|-----------------------------------------|
| Model Name  | C6-S7-3070W-MCS-20-200-290-SX-1G-660-3R |
| Part Number | 602345728                               |

General Data

|                                   |                               |
|-----------------------------------|-------------------------------|
| Points per Profile                | 3072                          |
| Triangulation Angle               | 20 °                          |
| Working Distance                  | 297 mm                        |
| Laser Safety Class                | class3r                       |
| Laser Wavelength                  | 660 nm                        |
| Laser Output Power                | -                             |
| Laser Line Width                  | -                             |
| Linearity Z-Axis                  | 0.016 % of calibrated Z-Range |
| Profile speed with 200-row region | 39968 Hz                      |
| Maximum profile speed             | 87873 Hz                      |

Field of View

|              | Nominal  | Near Field | Far Field |
|--------------|----------|------------|-----------|
| Scan Width   | 205.9 mm | 167 mm     | 251.6 mm  |
| X-Resolution | 67 µm    | 54.4 µm    | 81.9 µm   |
| Z-Resolution | 2.5 µm   | -          | -         |

Z-Range

|         | Full   | Near Field | Far Field |
|---------|--------|------------|-----------|
| Z-Range | 130 mm | 60 mm      | 70 mm     |

Technical Specifications

|                          |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Interface                | Gigabit-Ethernet (1GigE)                                                                                                   |
| Inputs                   | Encoder A+, A-, B+, B-, Z+, Z- (TTL level)<br>Two freely configurable digital inputs (+5 to +24 VDC)                       |
| Outputs                  | Two freely configurable digital outputs (+5 to +24 VDC)                                                                    |
| Power Supply             | Sensor supply +10 to +24 VDC (max. +27 VDC )<br>Laser supply +10 to +24 VDC                                                |
| Housing                  | Anodized aluminum<br>IP67 certified                                                                                        |
| Weight                   | 2.0000 g                                                                                                                   |
| Environmental Conditions | Operating temperature: 0 to +40 °C<br>Storage temperature: -20 to +80 °C<br>Relative humidity: 20 to 80 % (non-condensing) |
| Vibration Resistance     | Sinusodial: DIN EN 60068-2-6:2008-10: 2g, 10-150 Hz<br>Random: DIN EN 60068-2-64:2020-09: 7g, 10-500 Hz                    |
| Shock Resistance         | DIN EN 60068-2-27: 2010-02: 15g, 3ms                                                                                       |
| Supported Standards      | GenICam<br>GigEVision                                                                                                      |
| Firmware Features        | RegionTracking, RegionSearch, Multiple Regions, MultiPart, AutoStart, HistoryBuffer, MultiSlope, MultiPeak                 |
| Software                 | SolutionPackage, MetrologyPackage, cxSDK for C, C++, .Net, Python, Matlab, Halcon                                          |

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