

DATA SHEET

PN: 602345707, Model: C6-S7-3070-MCS-20-80-250-SX-1G-405-3R



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Model Information

Model Name	C6-S7-3070-MCS-20-80-250-SX-1G-405-3R
Part Number	602345707

General Data

Points per Profile	3072
Triangulation Angle	20 °
Working Distance	250 mm
Laser Safety Class	class3r
Laser Wavelength	405 nm
Laser Output Power	-
Laser Line Width	-
Linearity Z-Axis	0.014 % of calibrated Z-Range
Profile speed with 200-row region	4798 Hz
Maximum profile speed	66489 Hz

Field of View

	Nominal	Near Field	Far Field
Scan Width	78.9 mm	72 mm	88.3 mm
X-Resolution	25.7 µm	23.4 µm	28.7 µm
Z-Resolution	1.4 µm	-	-

Z-Range

	Full	Near Field	Far Field
Z-Range	43 mm	18 mm	25 mm

Technical Specifications

Interface	Gigabit-Ethernet (1GigE)
Inputs	Encoder A+, A-, B+, B-, Z+, Z- (TTL level) 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) Laser supply +10 to +24 VDC
Housing	Anodized aluminum IP67 certified
Weight	-
Environmental Conditions	Operating temperature: 0 to +40 °C Storage temperature: -20 to +80 °C Relative humidity: 20 to 80 % (non-condensing)
Vibration Resistance	Sinusodial: DIN EN 60068-2-6:2008-10: 2g, 10-150 Hz 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 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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