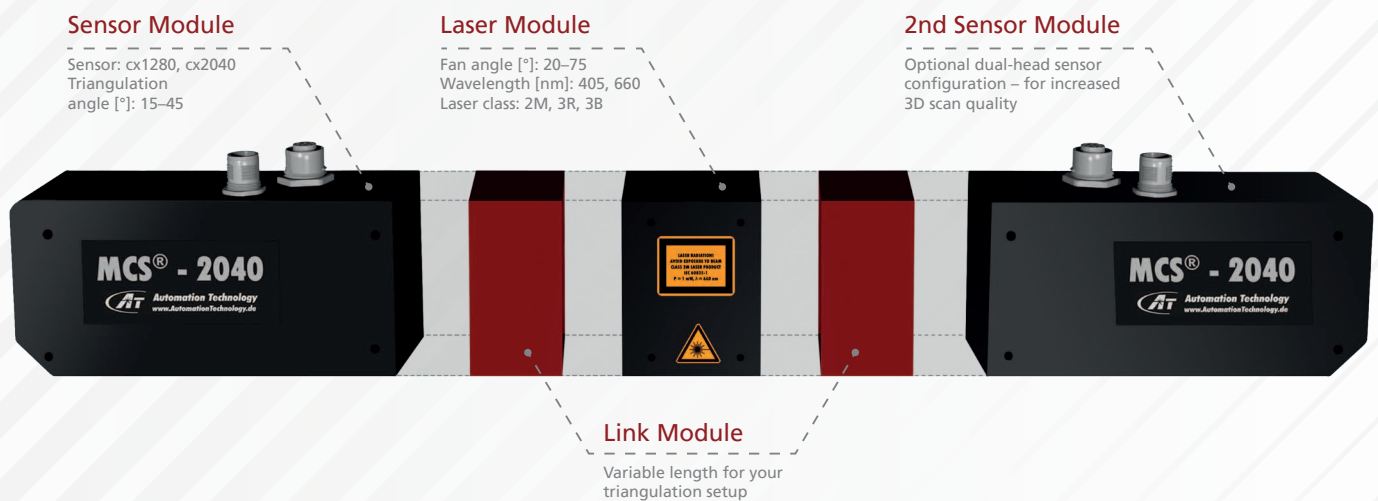


MCS Series

Modular 3D Compact Sensors



- ✓ Next generation of laser-triangulation compact sensors
- ✓ Modular configurable to perfectly meet your demands in terms of FOV, resolution, and speed
- ✓ No NRE charge for customization
- ✓ Optional dual-head sensor for increased 3D scan quality
- ✓ All configurations are factory calibrated
- ✓ Robust design for maximum reliability

Technical Specifications

Sensor Modules

Type	cx1280	cx2040
Points per Profile	1,280	2,048
X-FOV [mm]	130–750	170–1,200
Triangulation Angle [°]	15, 20, 30, 45	15, 20, 30, 45
Resolution X [µm]	100–580	80–480
Resolution Z [µm]	3–22	2–18
Z-Range [mm]	100–800	100–800
Linearity [% of Z-Range]	±0.01	±0.01
Repeatability [µm]	1–10	1–10
Max. Profile Speed [kHz]	200	25
Module Size [mm]	135 x 56 x 62.1 (L x D x H)	135 x 56 x 62.1 (L x D x H)

Laser Modules

Type	cx405	cx660
Wavelength [nm]	405	660
Fan Angle [°]	20, 30, 45, 60, 75	20, 30, 45, 60, 75
Working Distance [mm]	200–900	200–900
Power [mW]	25–160	20–130
Safety Class	2M, 3R, 3B	2M, 3R, 3B
Line Thickness [µm]	80–400	180–600
Module Size [mm]	44 x 56 x 62.1 (L x D x H)	44 x 56 x 62.1 (L x D x H)

Link Modules

Length [mm]	0, 25, 50, 100, custom length
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Electrical and Data Interface

External Trigger Functions	Encoder, 2 IN, 2 OUT
Power Supply [V]	10–24
Power Consumption [W]	10
Power Connector	17-pin M12 connector
Ethernet Connector	8-pin A-coded M12 connector
Data Interface	GigE Vision, Genlcam
Protocols	GigE Vision, HTTP, mDNS

Environmental

Protection Degree	IP67
Operating Temperature [°C]	0–50 (non condensing)
Shock	15 g (IEC 60068-2-27)
Vibration	2 g, 20–500 Hz (IEC 60068-2-6)