

**ECONOMIC & COMPACT** 

BEST PRICE-PERFORMANCE SENSOR

**SUPERIOR 3D IMAGE QUALITY**FOR RELIABLE INSPECTION & MEASUREMENT

**INDUSTRIAL COMPACT HOUSING** 

STABILITY AND FLEXIBILITY FOR MACHINE AND ROBOT INTEGRATION

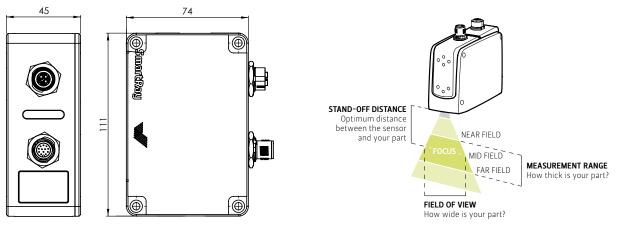


## **KEY SPECIFICATIONS**

Model	ECCO 85.040+	ECCO 85.100+	ECCO 85.200+
Field of view (near   <b>mid</b>   far)	34   <b>36</b>   38 mm	72   <b>98</b>   124 mm	125   <b>190</b>   280 mm
Typical measurement range	16 mm	100 mm	300 mm (-125 mm, +175 mm)
Stand-off distance	55 mm	145 mm	320 mm
Typical vertical resolution	1.4-1.8 µm	5-12 µm	12-50 µm
Typical lateral resolution	18-20 µm	42-70 µm	66-138 µm
Z-linearity	0.006%	0.002%	0.015%
Z-repeatability	سر 0.4 m	2 µm	3.3 µm
Mounting distance	79 mm	174 mm	349 mm
Laser wavelength	450 nm (brilliant blue laser) 660 nm (red laser)		660 nm (red laser)
Part number laser class 2 laser class 3R	3.002.127 3.004.127	3.002.128 3.004.128	3.002.129 3.004.129
Laser class (standard   optional)	2   3R		
Maximum points / 3D profile	1920		
Weight	<550 g		
Typical scan rate <sup>1</sup>	Approx. from 1 kHz to 5 kHz		
Typical 3D point rate <sup>1</sup>	Approx. from 1 up to 8 million points/sec		
Interface	Gigabit Ethernet (1 Gbit/sec)		
Inputs	2x Inputs (5 – 24 VDC) Quadrature Encoder (AB-Channel, RS-422 standard)		
Outputs	2 x Outputs, 24 VDC (max. 20 mA)		
Trigger	The following triggers are supported:  START Trigger support on Input 1 – 2  DATA Trigger support on Quadrature Encoder Input (Max. DATA trigger rate: 1 MHz)  DATA Trigger support on Input 2 (Max. DATA trigger rate: 10 kHz)		
Input voltage   power	24 VDC, ± 15%   8.5 W		
Maximum ambient light	10,000 lx		
EMC test	as per EN 61 000-6-2, EN 61 000-6-4, EN 61326-1:2013-07		
Electrical safety	as per EN 61 010-1-3		
Protection class	III, as per EN 61 040-3		
Laser safety inputs	24 VDC   0V		
Enclosure rating	IP65		
Air humidity	Maximum 90%, non-condensing		
Temperature operation   storage	0 - 40°C   -20 - 70°C		
Compatible accessories	Power-I/O-Encoder cable: 6.320.0XX, Ethernet cable: 6.303.0XX		
	l .		

Note: Typical values may vary up to ±5% due to optical and production tolerances

<sup>1</sup> Scan rate & point rate are dependent on the configured field of view, measurement range and exposure time. A ,scan' by definition considers maximum points/3D profile i.e. full FOV. The typical scan/point rate range has been estimated considering an exposure time of 1 µsec, min-max MR and full FOV. The typical scan rate can be further boosted by windowing the FOV



## FOR MORE INFORMATION PLEASE CONTACT US: